Mobile DVR User's Manual

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Welcome

Thank you for purchasing our DVR!

This operating manual is designed to be a reference tool for the installation and operation of your system.

Here you can find information about this series DVR features and functions, as well as a detailed menu tree.

Before installation and operation please read the following safeguards and warnings carefully!

Important Safeguards and Warnings

1．Electrical safety

All installation and operation here should conform to local electrical safety codes.
We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

2．Transportation security

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3．Installation

Keep upwards. Handle with care.
Do not apply power to the DVR before completing installation.
Do not place objects on the DVR

4．Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers.
We are not liable for any problems caused by unauthorized modifications or attempted repair.

5．Environment

The DVR should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.

6. Accessories

Be sure to use all the accessories recommended by manufacturer.
Before installation, please open the package and check all the components are included:

1 FEATURES AND SPECIFICATIONS

	Specification		
System	OS		LINUX
	Operation Interface		Graphic user interface
	Operation Method		1.Remote control 2.Mouse 3.Network keyboard 4.Network
	External Interface		1.Power input port 2.Audio/Video input port 3.Video output port 4.Audio output port 5.High-speed USB2.0 port 6.RS232 port 7.RJ45 network port
	Storage Device		2.5 inches HDD as the main storage device
	Record Mode		1.Automatically begin record once boots up 2. Schedule auto record. Delayed turn off. 3.Activation record once alarm occurs
	Playback Mode	Search(support search engineers)	1.Time 2.Alarm 3.Channel
		Playback Control	1.Freely switch video playback file 2. Integrate multiple playback speeds such as normal playback, slow speeds or fast speeds.
Record	Record	Video	4-Ch real-time record
		Audio	4-ch audio input
	Video Input Format/Standard		PAL（625 Line，50f/s）/NTSC（525 Line，60f/s）
	Video Input Port Parameter	Port	BNC
		Input Resistance	75Ω
		Input Signal	1.0Vp-p
	Video Output Port Parameter	Port	BNC
		Output Resistance	75Ω
		Output Signal	1.0Vp-p
	Real-time Monitor Video Resolution		704×576（PAL）/720×480（NTSC）
	Real-time Monitor Plane Definition		440 TV Line
	Record Compression Method		H.264
	Video Record Speed		PAL： 1-25f/s(Adjustable)
			NTSC：1-30f/s(Adjustable)
	Record Resolution	CIF	PAL： 352×288 NTSC：360×240
	Record Video Quality		1-6 level (Adjustable)
	Playback Plane Resolution		240 TV Line
	Record Video Information		Time information
			Channel information
			Vehicle information

	Record Backup Method		Plate number
			Temperature
			High-speed USB2.0 mobile device support local backup.
	Record Video Bit stream		1-ch CIF：40～460MB/H（Depends on the video content）
	Record file Way		Create a file at 10M/15M/20M/30M/60M
	Audio Input Port Parameter	Port	BNC
		Input Resistance	20KΩ
		Input Signal	200～2800mV
	Audio Output Port Parameter	Port	BNC
		Output Resistance	1KΩ
		Output Signal	200～2800mV
	Audio Output Signal to Noise Ratio		≥75dB
	Audio Sampling	Sampling Frequency	8KHz
		Sampling Bit	16-bit
	Audio Encode Method		PCM
	Audio Bit Stream		56.25MB/H
Auxiliary Function	Scheduled boot up		Support scheduled boot up function to make sure there are recorded video in the specified period,
Others	Vibration		≥8 H@ frequency 0～100Hz，Extent:10MM
	Rated Power		+12V / +24V / +42V（+8V～+60V）
	Rated Current		≤1A（Including HDD）
	Start Current		≤1.5A
	Average Power		10W（Including HDD）
	Temperature		0℃～+60℃（Ordinary HDD）
	Humidity		10%～95%
	Atmosphere Pressure		86Kpa～106Kpa
	Net Weight		1.7Kg（Including HDD）
	Unit Dimension		179(W)×54(H)×185(D) mm
	Installation		Rack Installation

Features and specification are subject to change without prior notice.

2 OVERVIEW AND CONTROLS

This section provides information about front panel and rear panel. If you install this series DVR for the first time, please refer to this part first.

2.1 Front Panel

This series DVR front panel is shown as in Figure 2-1 .

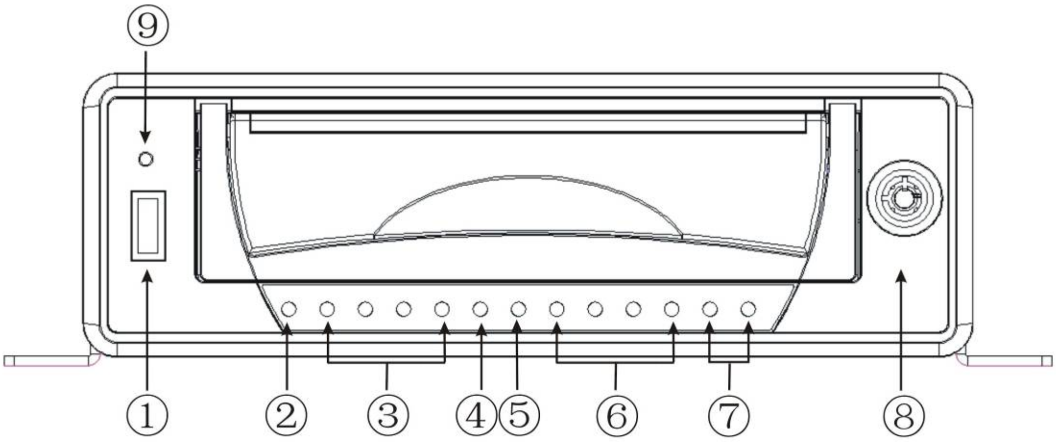


Figure 2-1

① USB 2.0 data port

② Power indication light: It becomes on when connect device to the power.

③ 1-4ch record status indication light: It becomes on when record. It flashes when there is abnormal situation.

④ backup indication light: It flashes when system backups. It becomes on when backup completes.

⑤ Upgrade indication light.

⑥ 1-4ch alarm input light. It becomes on when there is input alarm.

⑦ .2-ch alarm output indication light. It becomes on when there is output alarm.

⑧ Door key

⑨ IR remote control receiver.

2.2 Remote Control

The remote control interface is shown as in Figure 2-2.

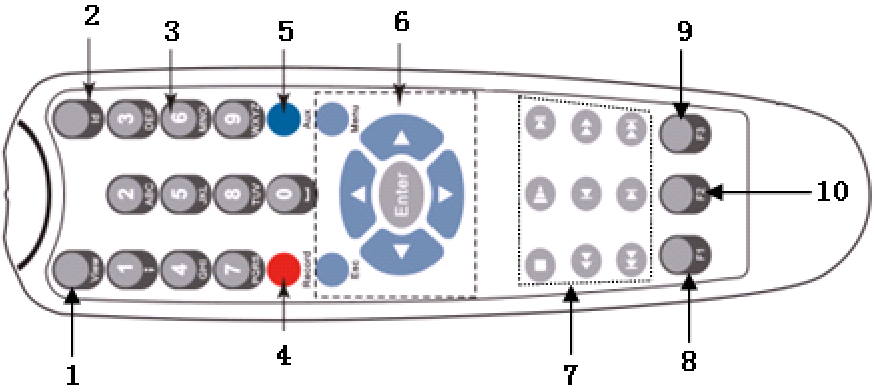
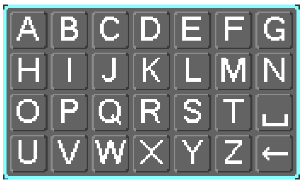
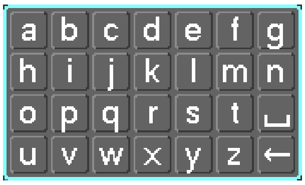
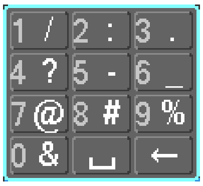


Figure 2-2

SN	Name	Function
1	View	Video switch
2	ID	Press this button and then input DVR serial number to control this DVR
3	Numeral	0-9 number key. You can input password, numeral or switch channel
4	Record	Record video
5	Aux	Auxiliary key
6	Enter	Confirm /menu key
	Menu	Pop up menu
	Esc	Cancel
	▲ ◀ ▶ ▼	Direction keys Direction keys in PTZ control
7	■	Stop Zoom- in PTZ control
	▮▸	Slow play
	▸ II	Playback/Pause Zoom + in PTZ control
	◀◀	Backward
	|◀	Previous section
	▶▶	Forward
	⏮	Slow forward: Various slow play speeds and normal Playback mode. Focus- in PTZ control
	▶|	Next section
	⏭	Fast forward: Various fast forward speeds and normal playback mode. Focus + in PTZ control
8	F1	One-key backup button
9	F2	Reserved for future use
10	F3	Reserved for future use

2.3 Mouse Control

Left click mouse	System pops up password input dialogue box if you have not logged in. In real-time monitor mode, you can go to the main menu.
	When you have selected one menu item, left click mouse to view menu content.
	Implement the control operation.
	Modify checkbox or motion detection status.
	Click combo box to pop up drop down list
	In input box, you can select input methods. Left click the corresponding button on the panel you can input numeral/English character (small/capitalized). Here ← stands for backspace button. __ stands for space button. In English input mode: _stands for input a backspace icon and ← stands for deleting the previous character.  A B C D E F G H I J K L M N O P Q R S T ␣ U V W X Y Z ←  a b c d e f g h i j k l m n o p q r s t ␣ u v w x y z ← In numeral input mode: _ stands for clear and ← stands for deleting the previous numeral. When input special sign, you can click corresponding numeral in the front panel to input. For example, click numeral 1 you can input"/" , or you can click the numeral in the on-screen keyboard directly. 
Double left click mouse	Implement special control operation such as double click one item in the file list to playback the video.
	In multiple-window mode, double left click one channel to view in full-window. Double left click current video again to go back to previous multiple-window mode.
Right click mouse	Exit main menu and go to the preview interface.
	Exit current menu without saving the modification.
Press middle	In numeral input box: Increase or decrease numeral value.
	Switch the items in the check box.

button	Page up or page down
Move mouse	Select current control or move control
Drag mouse	Select motion detection zone
	Select privacy mask zone.

3 Installation and Connections

Note: All the installation and operations here should conform to your local electric safety rules.

3.1 Check Unpacked DVR

When you receive the DVR from the shipping agency, please check whether there is any visible damage to the DVR appearance. The protective materials used for the package of the DVR can protect most accidental clashes during transportation. Then you can open the box to check the accessories.
Please check the items in accordance with the list on the warranty card. Finally you can remove the protective film of the DVR.

3.2 Device installation

Please refer to *Vehicle DVR Installation Manual*.

4 Overview of Navigation and Controls

Before operation, please make sure you have properly installed HDDs and all the cable connections.

4.1 Login, Logout & Main Menu

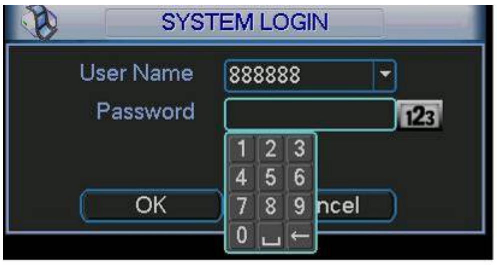
4.1.1 Login

Turn the key to ACC, you can see power indication light becomes on and DVR boots up (DVR boots up might take several seconds). System is in multiple-window preview mode after boots up and record setup is continuous record mode. You can see corresponding channel indication light becomes on and record indication light becomes on too.
After the system boots up, default video display is in multiple-window mode.
Click Enter or left click mouse, you can see the login interface. See Figure 4-1.
System consists of four accounts:

- Username: **admin**. Password: **admin**. (administrator, local and network)
- Username: **888888**. Password: **888888**. (administrator, local only)
- Username: **666666**. Passwords: **666666**(Lower authority user who can only monitor, playback, backup and etc.)
- Username: **default**. Password: **default**(hidden user)

For your system security, please modify you password after first login.
You can use USB mouse, front panel, remote controller or keyboard to input.

About input method: Click 123 to switch between numeral, English character (small/capitalized) and denotation.



SYSTEM LOGIN

User Name: 888888

Password:

Figure 4-1

4.1.2 Main Menu

When you logged in, the system main menu is shown as below. See Figure 4-2. There are total six icons: search, information, setting, backup, advanced and shutdown. Move the cursor to highlight the icon, then left click mouse to enter the sub-menu.

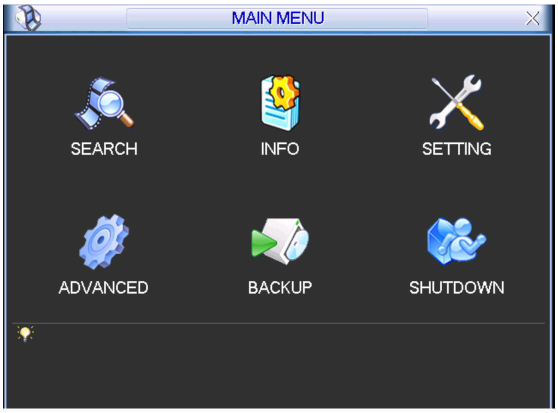

MAIN MENU
SEARCH
INFO
SETTING
ADVANCED
BACKUP
SHUTDOWN

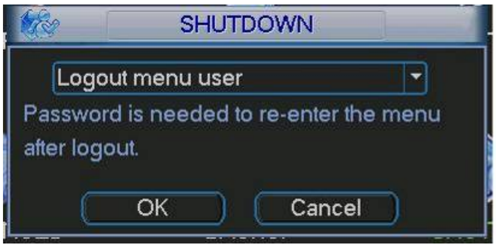
Figure 4-2

4.1.3 Logout

There are two ways for you to log out.

One is from menu option:

In the main menu, click shutdown button, you can see an interface is shown as below. See Figure 4-3.


SHUTDOWN
Logout menu user
OK
Cancel

Password is needed to re-enter the menu after logout.

Figure 4-3

There are several options for you. See Figure 4-4.

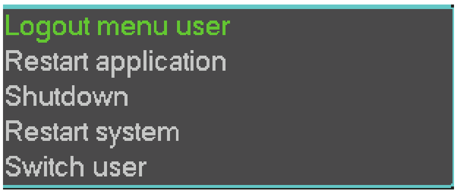

Logout menu user
Restart application
Shutdown
Restart system
Switch user

Figure 4-4

The other way is to press power button on the front panel for at least 3 seconds, system will stop all operations. Then you can click the power button in the rear panel to turn off the DVR.

System supports ACC delaying function. The value ranges from 0 to 255(Unit: minute). System can delay shutting down for the specified time and then turn off.

4.1.4 Auto Resume after Power Failure

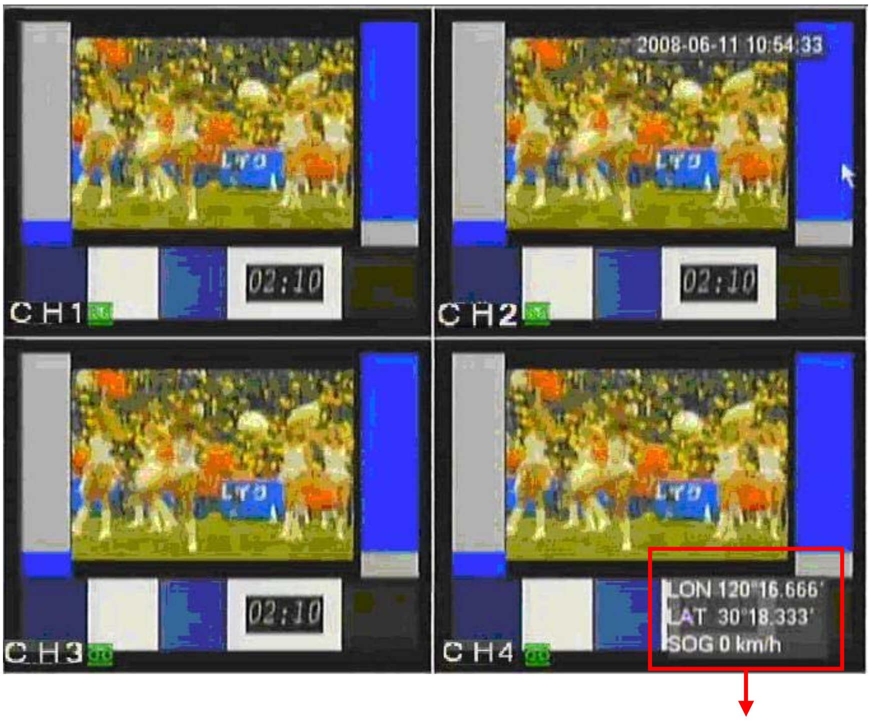
The system can automatically backup video and resume previous working status after power failure.

4.2 Recording Operation

4.2.1 Live Viewing

After you logged in, the system is in live viewing mode. You can see system date, time and channel name. Here you can also view longitude, latitude and vehicle speed.

If you want to change system date and time, you can refer to general settings (Main Menu->Setting->General). If you want to change the channel name, please refer to the display settings (Main Menu->Setting->Display). See Figure 4-4.



Longitude/latitude and vehicle speed

Figure 4-5

1	🟩	Recording status	3	?	Video loss
2	🟥	Motion detection	4	🔒	Camera lock
5	LON	longitude	6	LAN	Latitude
7	SOG	Vehicle speed			

Note: Please refer to the following sheet for channel status. ⟳ stands for opening switch function, ⟲ stands for closing switch function.

4.2.2 Manual record

Note:

You need to have proper rights to implement the following operations. Please make sure the HDDs have been properly installed.

4.2.2.1 Manual record menu

There are two ways for you to go to manual record menu.

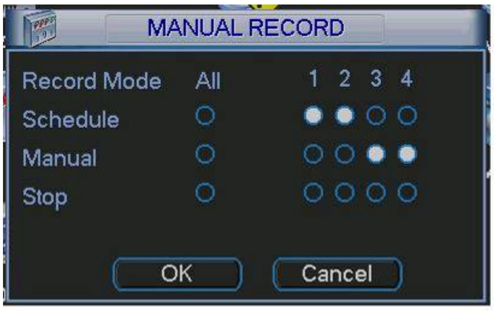
- Right click mouse or in the main menu, Advanced->Manual Record.
- In live viewing mode, click record button in the front panel or record button in the remote control.

Manual record menu is shown as in Figure 4-6.

4.2.2.2 Basic operation

There are three statuses: schedule/manual/stop. Highlight icon "○" to select corresponding channel.

- Manual: the highest priority. After manual setup, all selected channels will begin ordinary recording.
- Schedule: channel records as you have set in recording setup (Main Menu->Setting->Schedule)
- Stop: all channels stop recording.



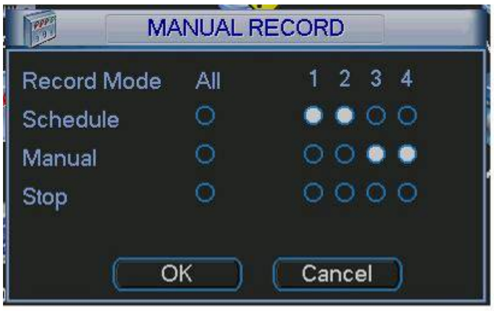
Record Mode	All	1	2	3	4
Schedule	○	●	●	○	○
Manual	○	○	○	●	●
Stop	○	○	○	○	○

Figure 4-6

4.2.2.3 Enable/disable record

Please check current channel status: "○" means it is not in recording status, "●" means it is in recording status.

You can use mouse or direction key to highlight channel number. See Figure 4-7.



Record Mode	All	1	2	3	4
Schedule	○	●	●	○	○
Manual	○	○	○	●	●
Stop	○	○	○	○	○

Figure 4-7

4.2.2.4 Enable all channel recording

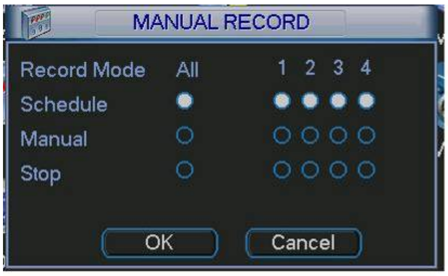
Highlight ○ below All, you can enable all channel recording.

- All channel schedule record

Please highlight "ALL" after "Schedule". See Figure 4-8.

When system is in schedule recording, all channels will records as you have previously set (Main menu->Setting->Schedule).

The corresponding indication light in front panel will turn on.



Record Mode	All	1	2	3	4
Schedule	●	●	●	●	●
Manual	○	○	○	○	○
Stop	○	○	○	○	○

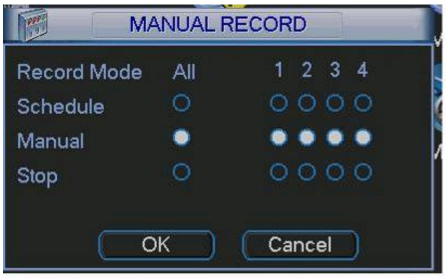
Figure 4-8

- All channel manual record

Please highlight “ALL” after “Manual.” See Figure 4-9.

When system is in manual recording, all scheduled set up you have set in will be null ((Main menu->Setting->Schedule)).

You can see indication light in front panel turns on, system begins manual record now.



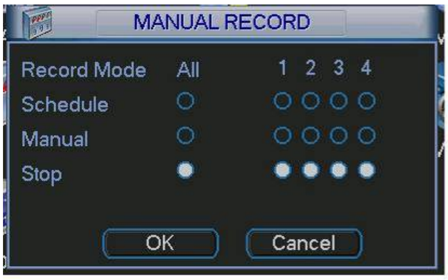
Record Mode	All	1	2	3	4
Schedule	○	○	○	○	○
Manual	●	●	●	●	●
Stop	○	○	○	○	○

Figure 4-9

4.2.2.5 Stop all channel recording

Please highlight “ALL” after “Stop”. See Figure 4-10.

System stops all channel recording no matter what mode you have set in the menu (Main menu->Setting->Schedule)



Record Mode	All	1	2	3	4
Schedule	○	○	○	○	○
Manual	○	○	○	○	○
Stop	●	●	●	●	●

Figure 4-10

4.3 Search & Playback

4.3.1 Search Menu

There are two ways for you to go to search menu.

- Click Pause/Play button in the remote control.
- Click search in the main menu.

Search interface is shown as below. See Figure 4-11.

Usually there are three file types:

- R: regular recording file.
- A: external alarm recording file.
- M: motion detection recording file

There are several playback windows. This System supports 1-ch playback.

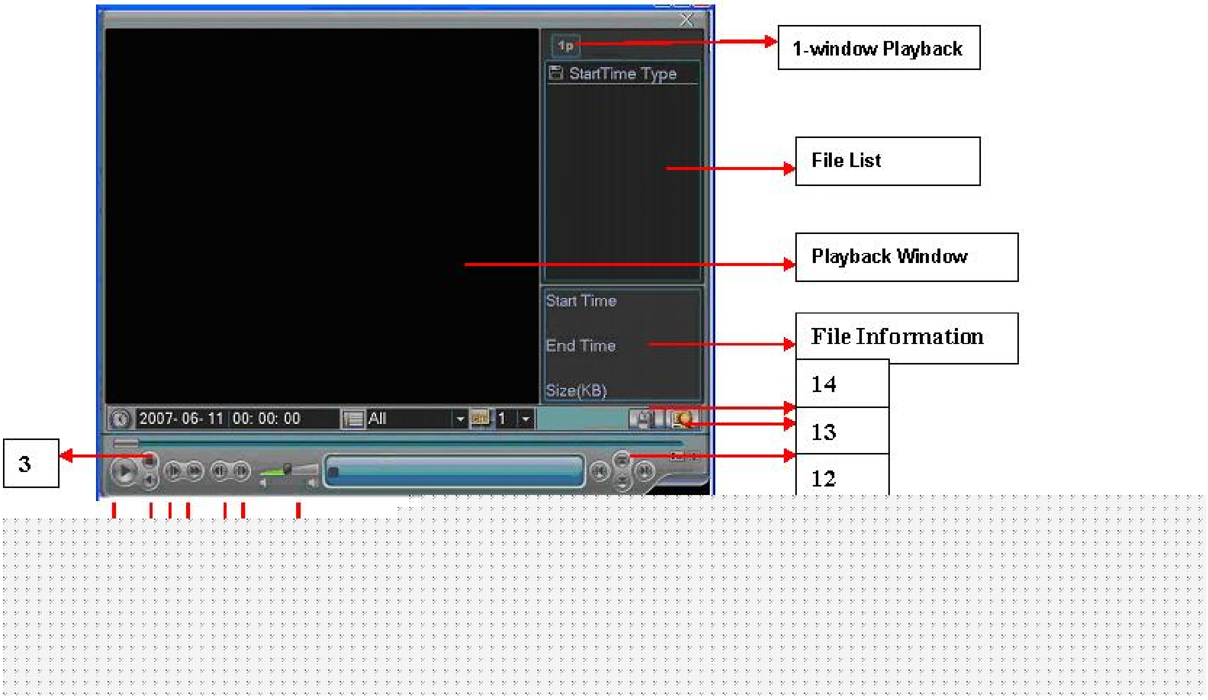

1p
StartTime Type
Start Time
End Time
Size(KB)
2007- 06- 11 00: 00: 00
All
1
1-window Playback
File List
Playback Window
File Information
14
13
12
3

Figure 4-11

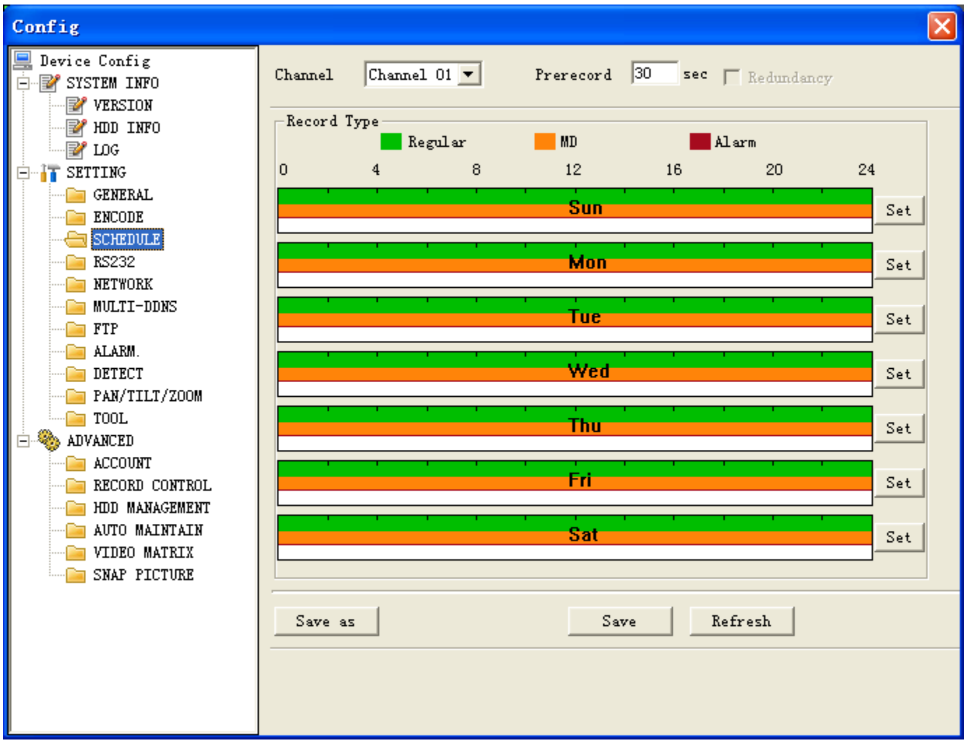
Please refer to the following sheet for more information.

Serial Number	Function
1	Play
2	Backward
3	Stop
4	Slow play
5	Fast play
6	Previous frame
7	Next frame
8	Volume
9	Previous file
10	Next channel
11	Next file
12	Previous channel
13	Search
14	Backup

4.3.2 Basic Operation

4.3.2.1 Playback

There are various search modes: video type, channel number or time. The system can max display 128 files in one screen. You can use up/down button to turn page.

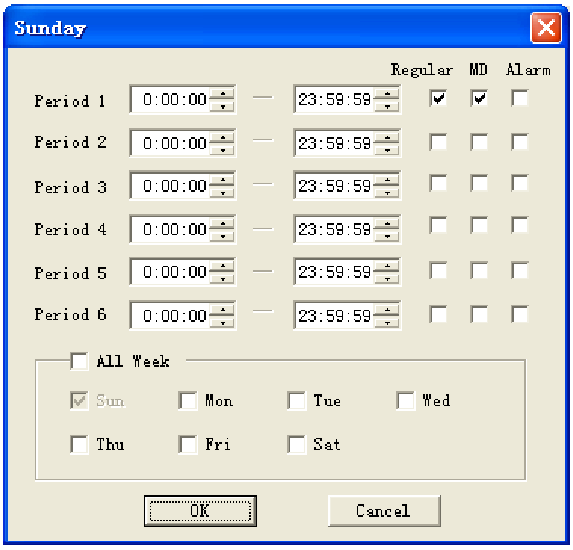

Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Record Type
Regular
MD
Alarm
0
4
8
12
16
20
24
Sun
Mon
Tue
Wed
Thu
Fri
Sat
Set
Save as
Save
Refresh

Channel: Channel 01

Prerecord: 30 sec

☐ Redundancy

Figure 6-27


Sunday
OK
Cancel

				Regular	MD	Alarm
Period 1	0:00:00	—	23:59:59	☑	☑	☐
Period 2	0:00:00	—	23:59:59	☐	☐	☐
Period 3	0:00:00	—	23:59:59	☐	☐	☐
Period 4	0:00:00	—	23:59:59	☐	☐	☐
Period 5	0:00:00	—	23:59:59	☐	☐	☐
Period 6	0:00:00	—	23:59:59	☐	☐	☐

☐ All Week

☑ Sun ☐ Mon ☐ Tue ☐ Wed

☐ Thu ☐ Fri ☐ Sat

Figure 6-28

Tip:

After you finished setup for one channel, you can click “save as” button, system pops up the following interface. See Figure 6-29.Now you can copy one channel setup to other channels.

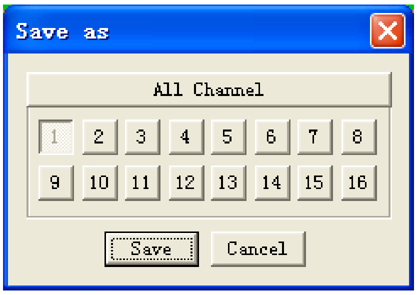

Save as
All Channel
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
Save
Cancel

Figure 6-29

- **Network**

Network interface is shown as in Figure 6-30.

This interface includes the following items:

Max: Here you can set max connection amount. The value ranges from 0 to 10. 0 means no network connection is allowed.

TCP port: default setup is 37777. Please note port 37778 is for network UDP port use only.

HTTP port: default setup is 80.

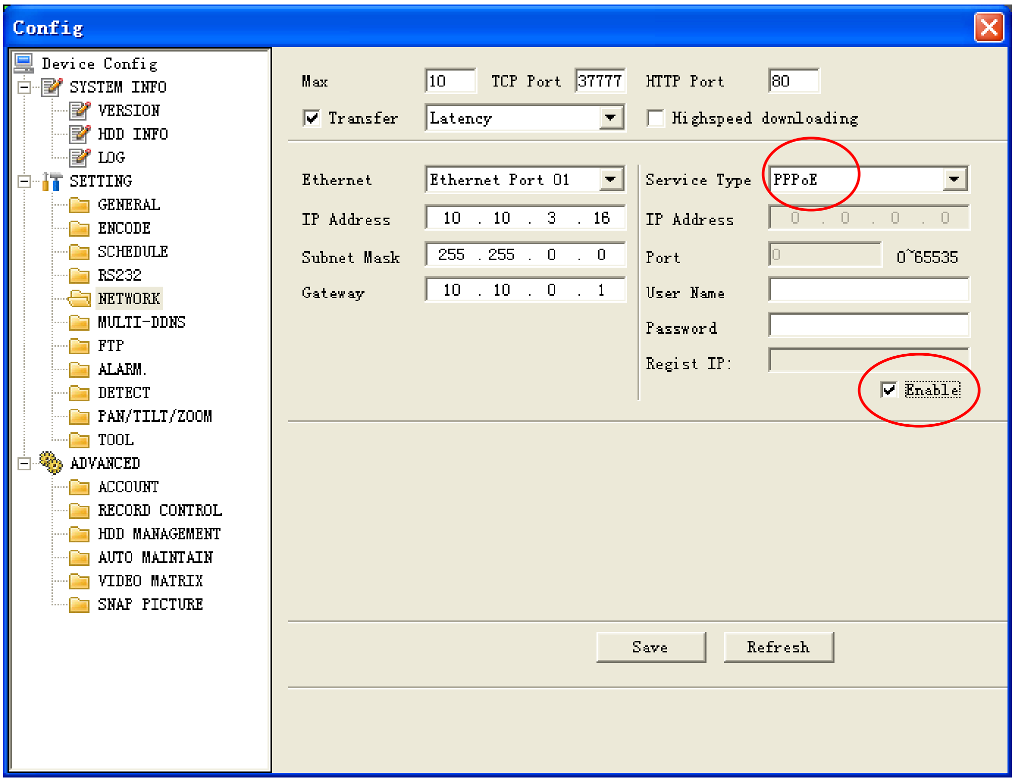
Transfer: here you can select the priority between fluency/video quality.

✧ **Enable PPPoE**

In remote item, enable PPPoE function and then input “PPPoE name” and “PPPoE password” you get from your ISP (Internet service provider). See Figure 6-30.

Click save button, you need to restart to activate your configuration.

After rebooting, DVR will connect to internet automatically. The IP displayed in the IP address item is the dynamic value. You can use client-end software to visit current IP now.


Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Save
Refresh

Max 10 TCP Port 37777 HTTP Port 80

☑ Transfer Latency ☐ Highspeed downloading

Ethernet Ethernet Port 01

IP Address 10 . 10 . 3 . 16

Subnet Mask 255 . 255 . 0 . 0

Gateway 10 . 10 . 0 . 1

Service Type PPPoE

IP Address 0 . 0 . 0 . 0

Port 0 0~65535

User Name

Password

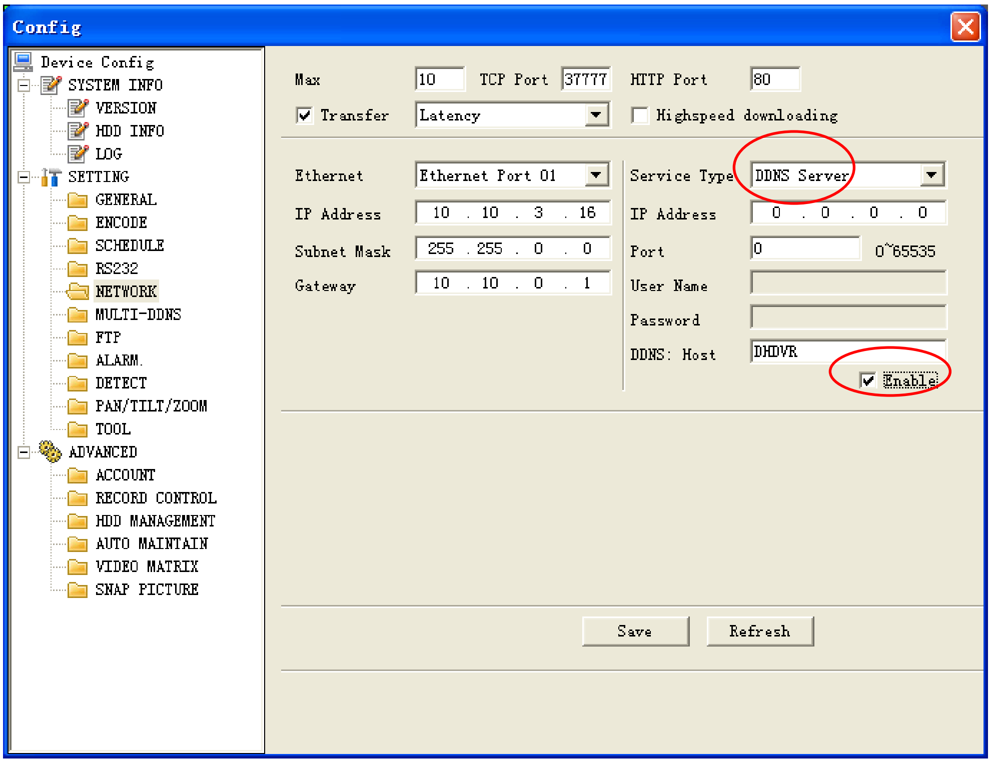
Regist IP:

☑ Enable

Figure 6-30

✧ **Enable DDNS**

You need a PC of fixed IP in the internet and there is the DDNS software running in this PC. In other words, this PC is a DNS (domain name server).see Figure 6-31. Please enable DDNS function and then input PC IP. Click save button and then reboot device. Now you can login via DDNS. Please open IE and then input http：//(DDNS server IP)/ DDNServer / default.htm. for example, input http：//10.5.2.149/DDNServer/default.htm, you open a DDNS server web page.


Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Save
Refresh

Max 10 TCP Port 37777 HTTP Port 80

☑ Transfer Latency ☐ Highspeed downloading

Ethernet Ethernet Port 01

IP Address 10 . 10 . 3 . 16

Subnet Mask 255 . 255 . 0 . 0

Gateway 10 . 10 . 0 . 1

Service Type DDNS Server

IP Address 0 . 0 . 0 . 0

Port 0 0~65535

User Name

Password

DDNS: Host DHDVR

☑ Enable

Figure 6-31

- **RS232**

RS232 includes the following items. See Figure 6-32.

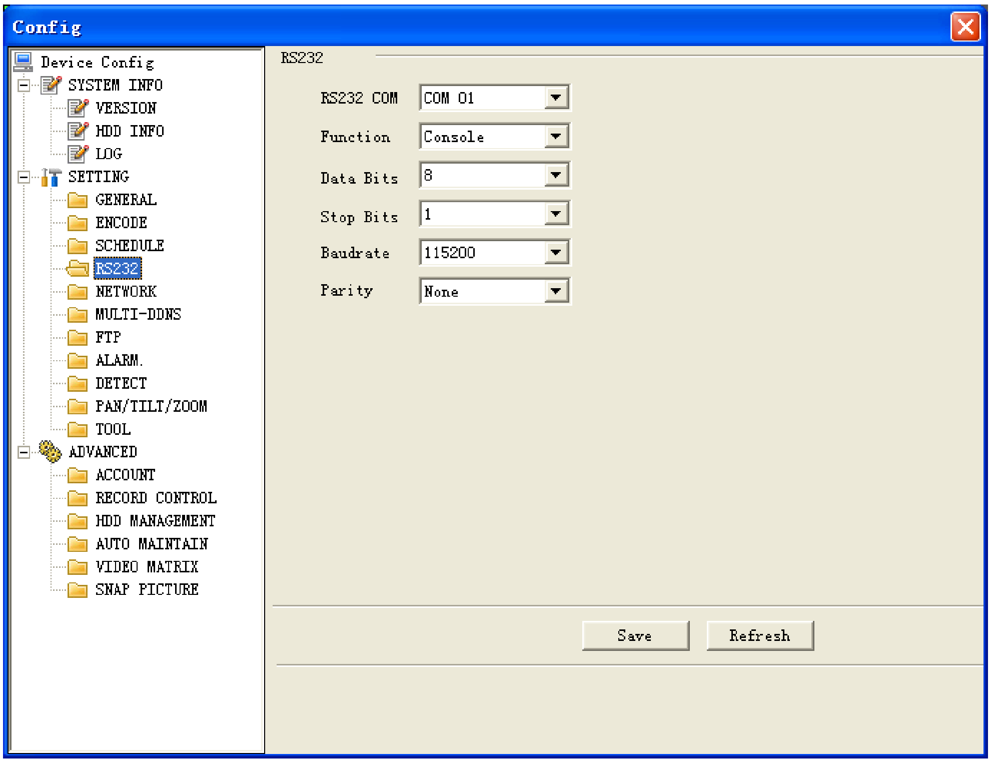
✧ Function: There are various devices for you to select. Console is for serial port or min-end platform to upgrade program. Keyboard is for you to use special keyboard to control current device.

✧ Baud rate: Please select as you desire.

✧ Data bit: The value ranges from 5 to 8.

✧ Stop bit: There are three options: 1/1.5/2.

✧ Parity: There are three options: none/odd /even.


Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Save
Refresh

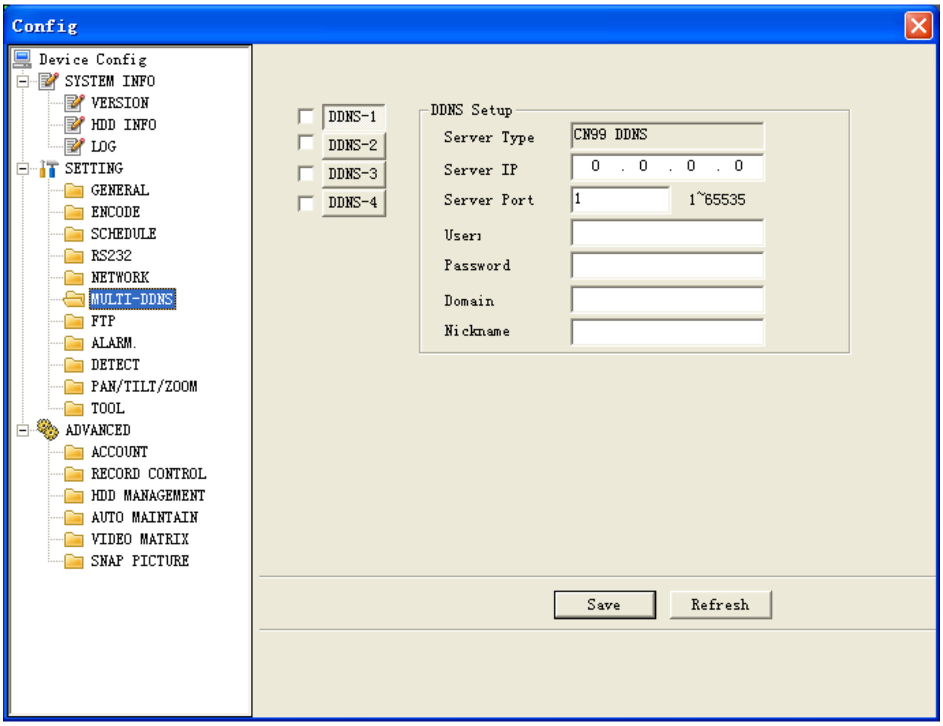
RS232

RS232 COM: COM 01
Function: Console
Data Bits: 8
Stop Bits: 1
Baudrate: 115200
Parity: None

Figure 6-32

- Mul-DDNS

Here you can select DDNS type. This operation needs DVR device supported. See Figure 6-33.


Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Save
Refresh

☐ DDNS-1
☐ DDNS-2
☐ DDNS-3
☐ DDNS-4

DDNS Setup

Server Type: CN99 DDNS
Server IP: 0 . 0 . 0 . 0
Server Port: 1 1~65535
User:
Password
Domain
Nickname

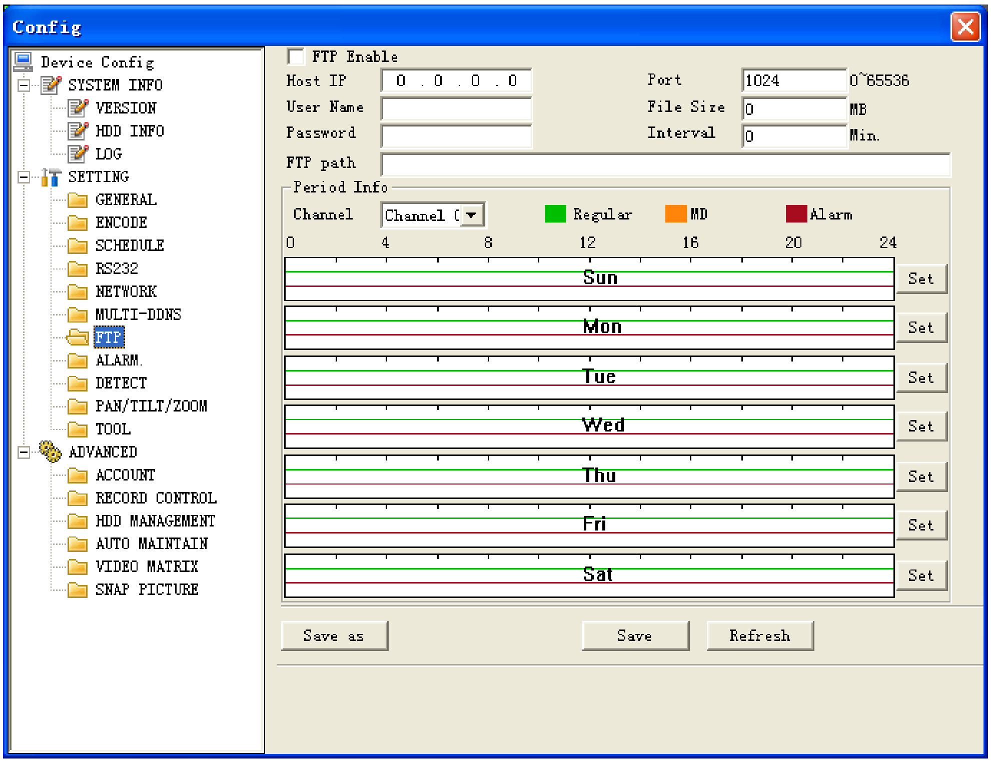
Figure 6-33

- **FTP**

After you completed setup here, system upload scheduled data to the specified FTP server regularly. Need device supported.

In Figure 6-34, you need to input FTP server address, port, log in user name and password. Then you need to specify the destination directory to save files.

- File: here you can input uploaded file length (Unit: MB) if the file is smaller than the setup value here, system upload the whole file. If the file is larger than the setup value, system only uploads the setup value data and ignores the rest data.
- Interval: for one channel of the same record type if there is more than one alarm, system only uploads the first file. For example, if the interval is five minutes, then system only uploads the first alarm or motion detection file even though there are several alarms in these five minutes. If the setup is 0, then system upload all files.
- Time period: Click set button, you can an interface as in Figure 6-35. You can check the box to select the file type. System supports multiple choices.


Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Period Info
🟩 Regular
🟧 MD
🟥 Alarm
0
4
8
12
16
20
24
Sun
Mon
Tue
Wed
Thu
Fri
Sat
Set
Save as
Save
Refresh

☐ FTP Enable

Host IP 0 . 0 . 0 . 0

Port 1024 0~65536

User Name

File Size 0 MB

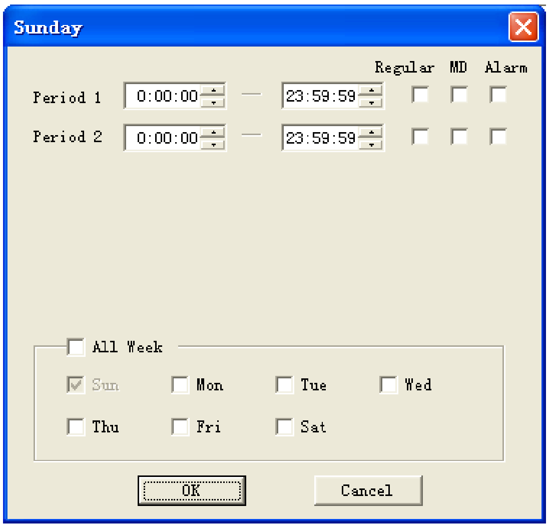
Password

Interval 0 Min.

FTP path

Channel Channel (

Figure 6-34


Sunday

				Regular	MD	Alarm
Period 1	0:00:00	—	23:59:59	☐	☐	☐
Period 2	0:00:00	—	23:59:59	☐	☐	☐

☐ All Week

☑ Sun ☐ Mon ☐ Tue ☐ Wed

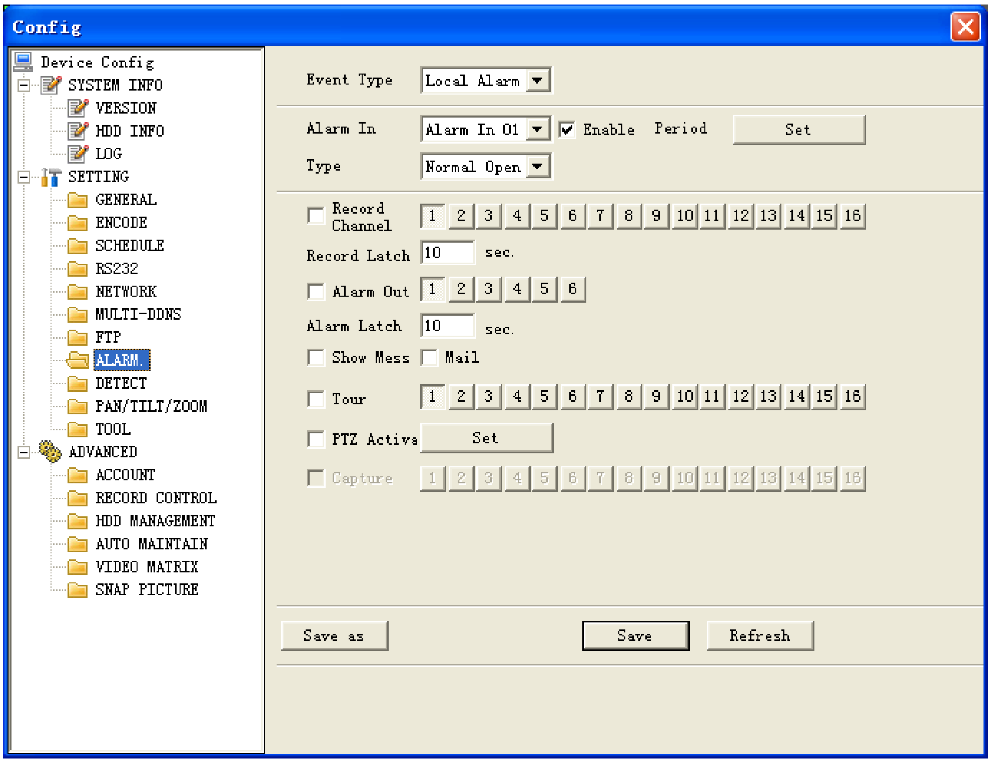
☐ Thu ☐ Fri ☐ Sat

Figure 6-35

- **Alarm**

Please note before alarm setup, you need to properly connect alarm input and output device, send address and receive address. Click save button confirm current setup. Alarm setup includes the following items. See Figure 6-36.

- Event Type: you can select event type from the drop down list: Local alarm/Net alarm.
- Alarm in: Select corresponding alarm in channel
- Type: There are two options: normal open and normal close.
- Record channel: select record channel when alarm occurs. Please note you need to select alarm record in DVR schedule interface and enable schedule function in manual record interface.
- Alarm output: select alarm activation channel when alarm occurs. Please note channel 3 is to control +12V output.
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- Email: System can send out email to alert you when alarm occurs.
- PTZ activation: Here you can set PTZ movement when alarm occurs. Such as go to preset x when there is an alarm. Click set button, the interface is shown as in Figure 6-37.
- Tour: Here you can enable tour function when alarm occurs. System supports multiple-window tour. Please go to chapter 5.3.9 Display for tour interval setup.


Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Period
Set
☐ Record Channel 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
☐ Alarm Out 1 2 3 4 5 6
☐ Show Mess
☐ Mail
☐ Tour 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
☐ PTZ Activa
Set
☐ Capture 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Save as
Save
Refresh

Event Type: Local Alarm

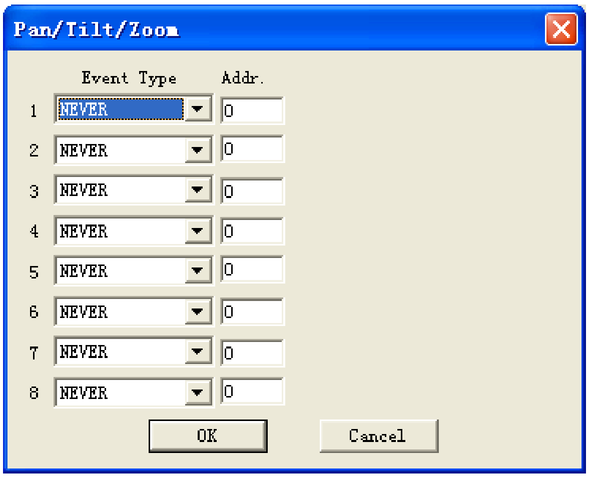
Alarm In: Alarm In 01 ☑ Enable

Type: Normal Open

Record Latch: 10 sec.

Alarm Latch: 10 sec.

Figure 6-36


Pan/Tilt/Zoom
OK
Cancel

	Event Type	Addr.
1	NEVER	0
2	NEVER	0
3	NEVER	0
4	NEVER	0
5	NEVER	0
6	NEVER	0
7	NEVER	0
8	NEVER	0

Figure 6-37

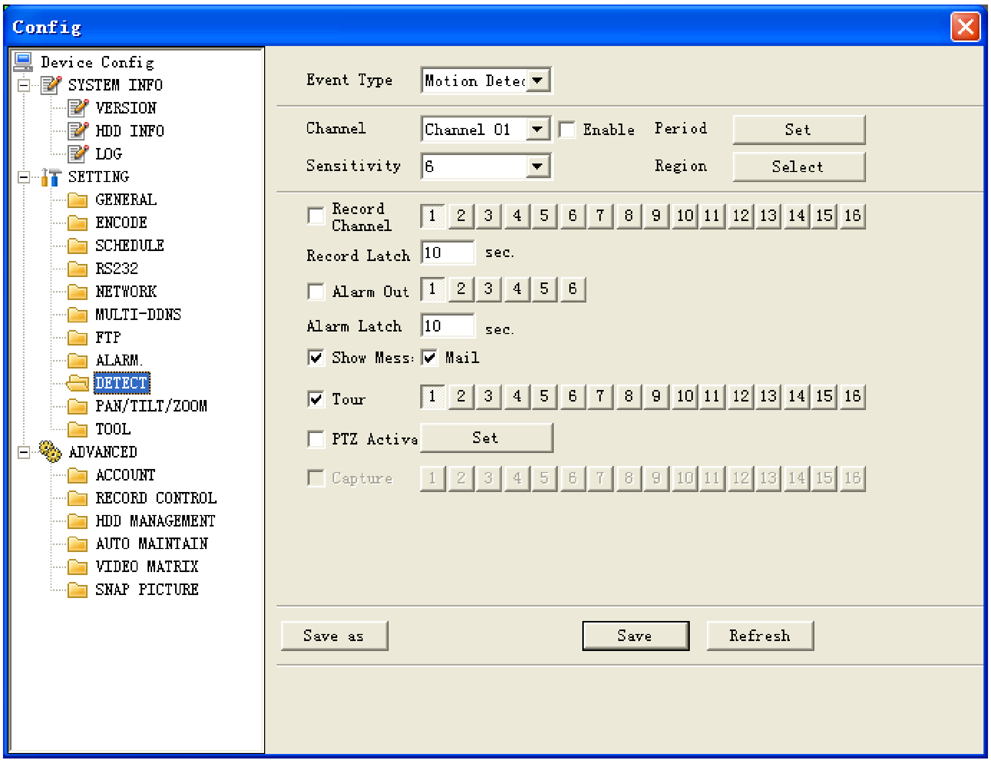
- **Detect**

Detect interface is shown as in Figure 6-38.

Here includes the following items:

- ✧ Channel: Select channel name from the dropdown list.
- ✧ Type: There are three types: motion detection/Video loss/Camera mask detection.
- ✧ Record channel: Here you can select record channel (Multiple choices). Please make sure you have set MD record in encode interface(Main Menu->Setting->Schedule) and schedule record in manual record interface(Main Menu->Advanced->Manual Record)

- Period: Here is for you to set record period. Click set button, you can see an interface is shown as in Figure 6-39. In Figure 6-39, click time set button, you can see an interface is shown as in Figure 6-40. Here you can set time period.
- Sensitivity: There are six levels. The sixth level has the highest sensitivity.
- Region: If you select motion detection type, you can click this button to set motion detection zone. The interface is shown as in Figure 6-41. There are 192 zones (16*12). Right click mouse you can go to full-screen display mode. Do remember clicking OK button in Figure 6-41 to save your motion detection zone setup.
- Alarm output: Here you can select activated external peripheral device when alarm occurs.
- Show message. System can alert you on the local screen if you enabled this function.
- Mail: system can send out email to alert you when alarm occurs.
- Tour: Here you can enable tour function when alarm occurs in corresponding channel. System supports multiple-window tour. Please go to chapter 5.3.9 Display for tour interval setup.
- PTZ activation: Click set button, you can see an interface is shown as in Figure 6-42. System can go to corresponding preset when alarm occurs.


Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Save as
Save
Refresh

Event Type: Motion Detec

Channel: Channel 01 ☐ Enable Period Set

Sensitivity: 6 Region Select

☐ Record Channel 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Record Latch 10 sec.

☐ Alarm Out 1 2 3 4 5 6

Alarm Latch 10 sec.

☑ Show Mess: ☑ Mail

☑ Tour 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

☐ PTZ Activa Set

☐ Capture 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Figure 6-38

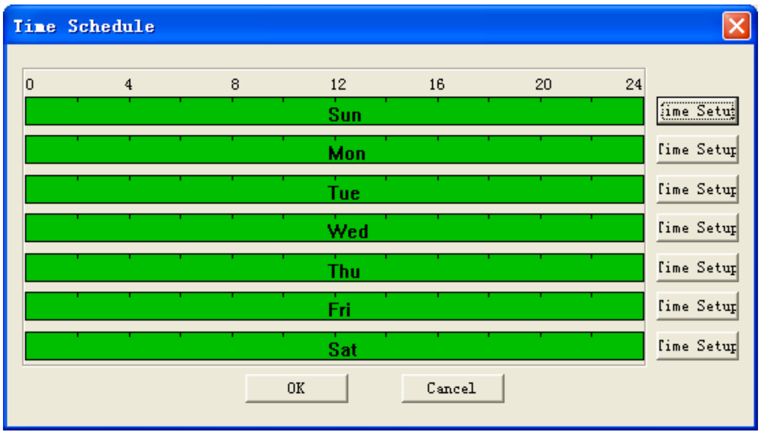
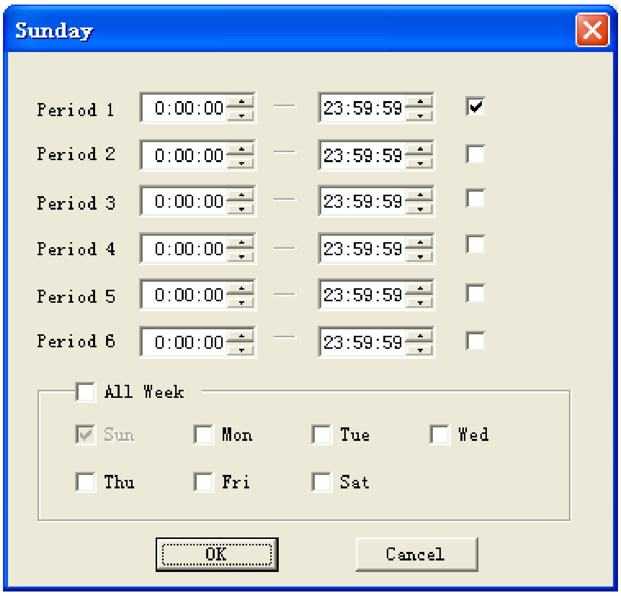

Time Schedule
0
4
8
12
16
20
24
Sun
Mon
Tue
Wed
Thu
Fri
Sat
Time Setup
Time Setup
Time Setup
Time Setup
Time Setup
Time Setup
Time Setup
OK
Cancel

Figure 6-39


Sunday
OK
Cancel

Period 1 0:00:00 — 23:59:59 ☑

Period 2 0:00:00 — 23:59:59 ☐

Period 3 0:00:00 — 23:59:59 ☐

Period 4 0:00:00 — 23:59:59 ☐

Period 5 0:00:00 — 23:59:59 ☐

Period 6 0:00:00 — 23:59:59 ☐

☐ All Week

☑ Sun ☐ Mon ☐ Tue ☐ Wed

☐ Thu ☐ Fri ☐ Sat

Figure 6-40

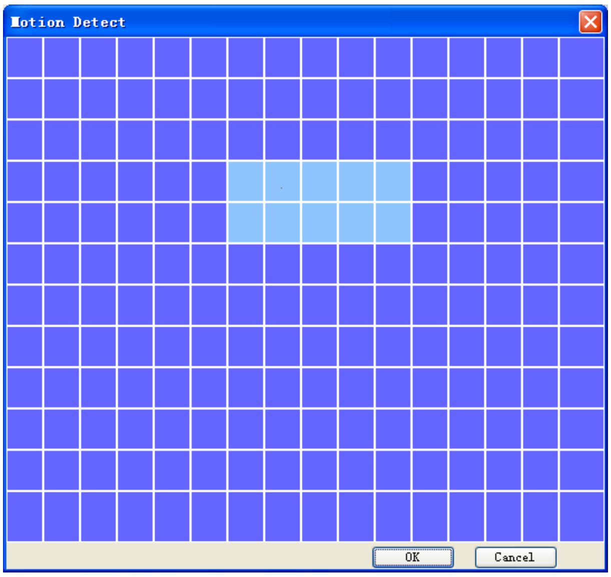
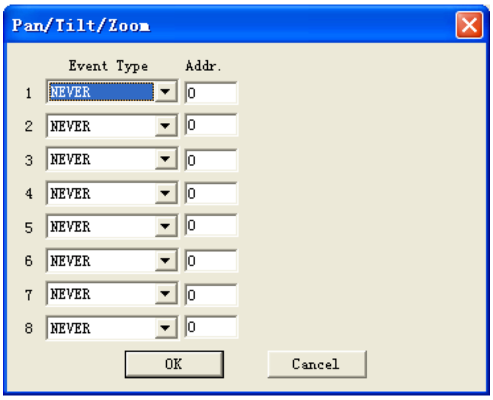

Motion Detect
OK
Cancel

Figure 6-41


Pan/Tilt/Zoom
OK
Cancel

	Event Type	Addr.
1	NEVER	0
2	NEVER	0
3	NEVER	0
4	NEVER	0
5	NEVER	0
6	NEVER	0
7	NEVER	0
8	NEVER	0

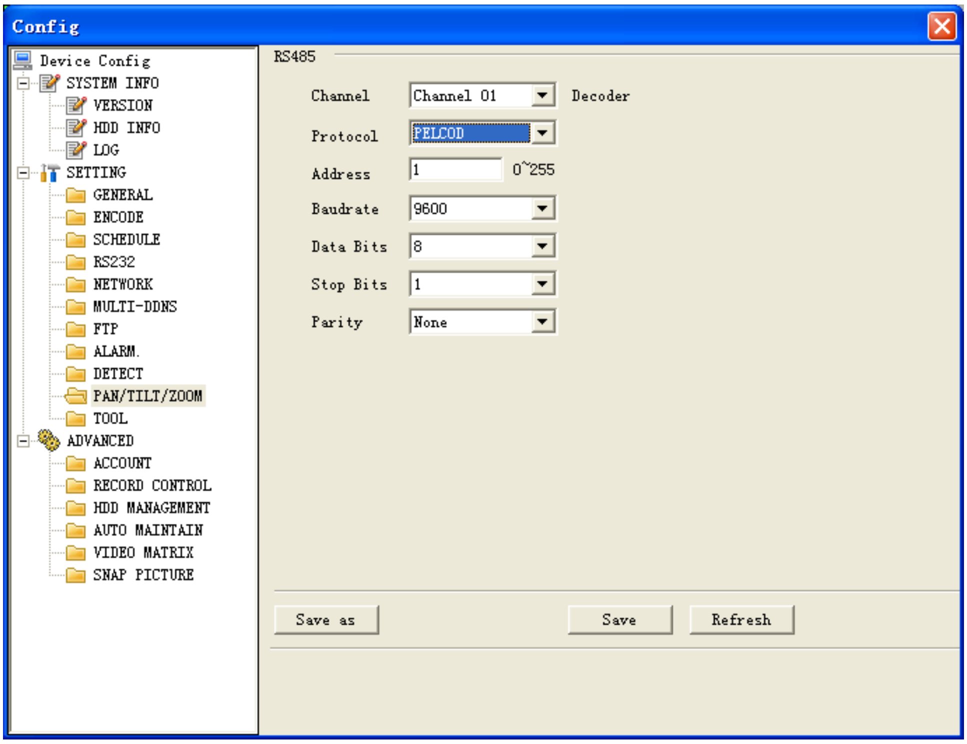
Figure 6-42

- **Pan/Tilt/Zoom**

Pan/Tilt/Zoom interface is shown as in Figure 6-43.

Please note you have properly set dome address and all connections are right.

- ✧ Decoder: Select the dome connected channel.
- ✧ Protocol: select the corresponding dome protocol.(such as Pelco)
- ✧ Address: Set corresponding dome address. Default value is 1. Please note your setup here shall comply with your dome address; otherwise you can not control the speed dome.
- ✧ Baud rate: Select the dome baud rate. Default setup is 9600.
- ✧ Data bit: Default setup is 8.
- ✧ Stop bit: Default setup is 1.
- ✧ Parity: Default setup is none.


Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
RS485
Save as
Save
Refresh

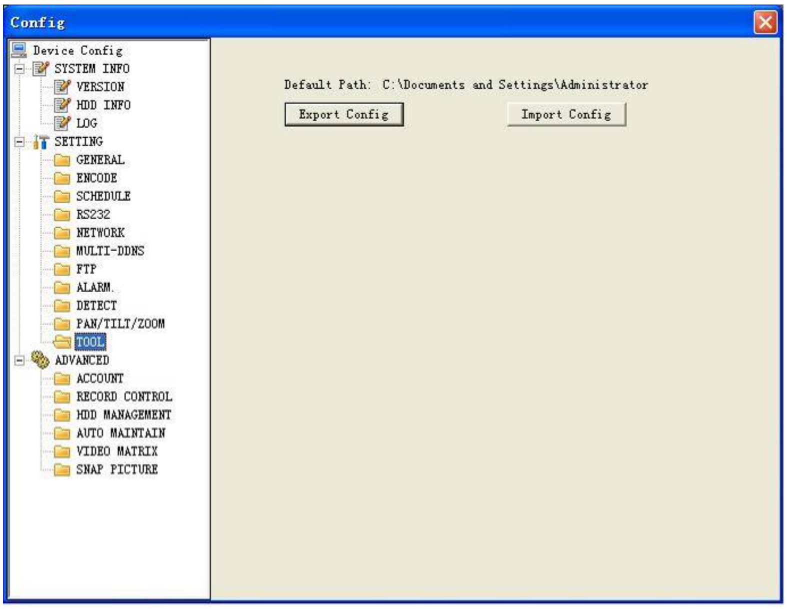
Channel: Channel 01 Decoder
Protocol: PELCOD
Address: 1 0~255
Baudrate: 9600
Data Bits: 8
Stop Bits: 1
Parity: None

Figure 6-43

- **Tool**

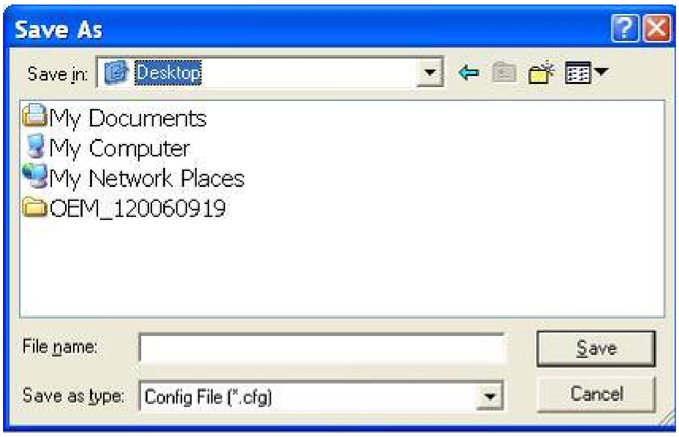
Here you can export or import configuration information. See Figure 6-44.

Save configuration data: Click export config button to save current setup as a file. Extension name is CFG. See Figure 6-45.
Load configuration data: Click import config button, you can load a setup file.


Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Export Config
Import Config

Default Path: C:\Documents and Settings\Administrator

Figure 6-44


Save As
My Documents
My Computer
My Network Places
OEM_120060919
File name:
Save
Cancel

Save in: Desktop

Save as type: Config File (*.cfg)

Figure 6-45

6.3.2.1 Advanced

Advanced includes the following items. See Figure 6-46.

✧ Account
✧ HDD management
✧ Alarm input
✧ Alarm output
✧ Auto maintain
✧ Video matrix
✧ Snapshoot

● **Account**

Account interface is shown as in Figure 6-46. Here you can add/delete user, add/delete group, modify user or group right, modify user password.

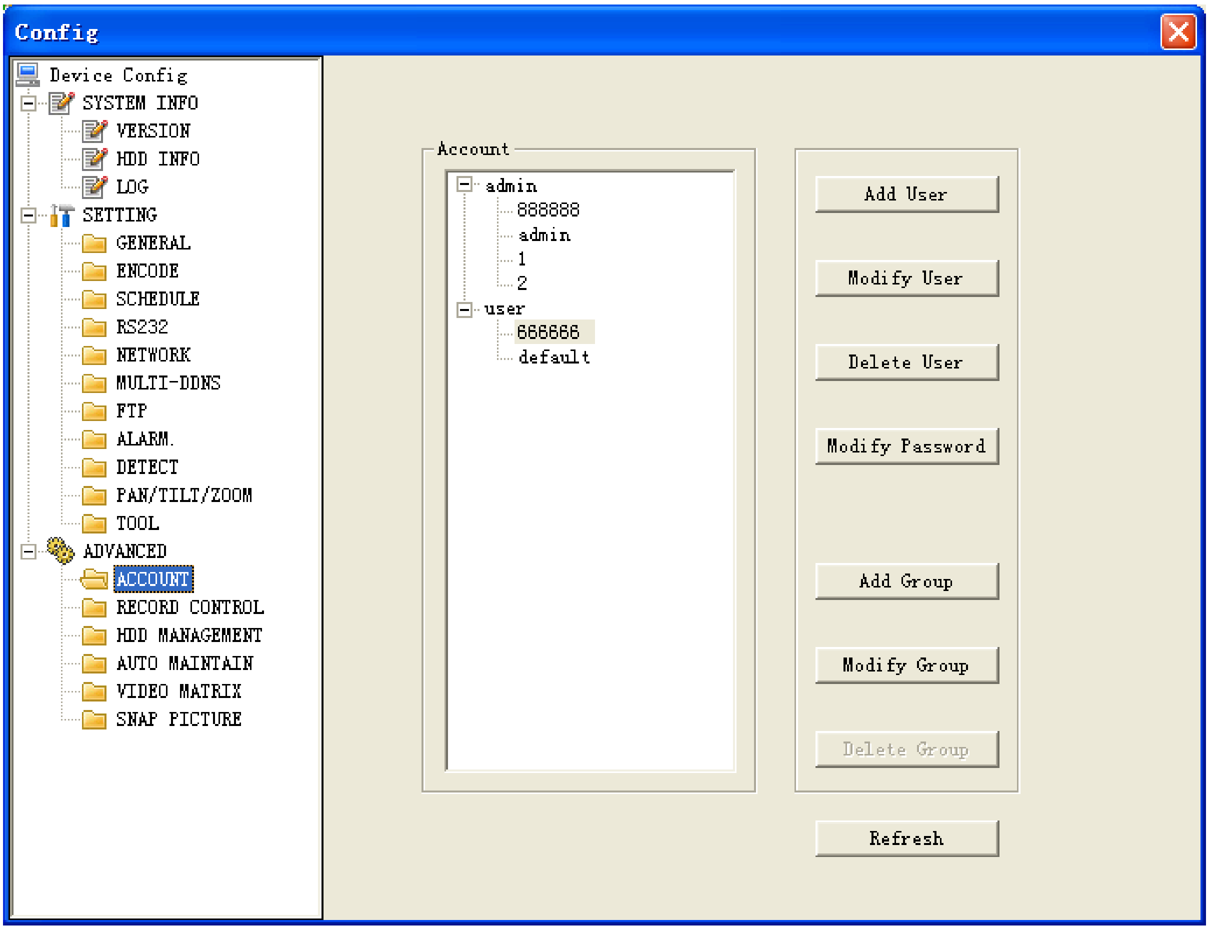
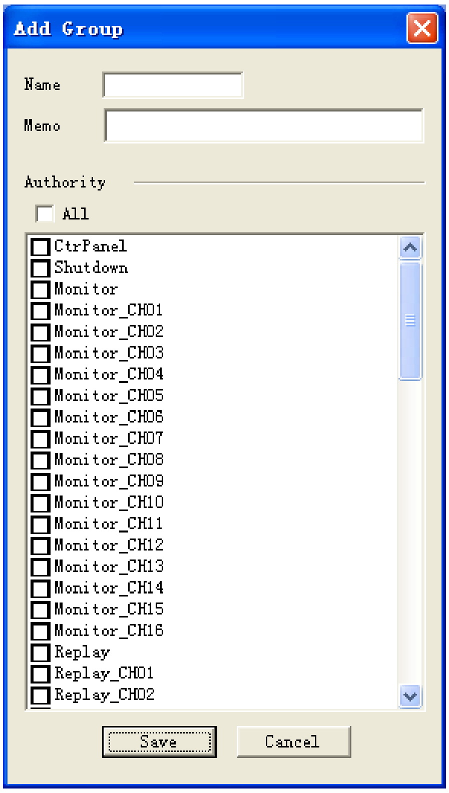

Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Account
admin
888888
admin
1
2
user
666666
default
Add User
Modify User
Delete User
Modify Password
Add Group
Modify Group
Delete Group
Refresh

Figure 6-46

Click add group button, you can see the following interface. See Figure 6-47.
Here you can add one new group, and then select corresponding rights for the whole group accounts.



Add Group

Name

Memo

Authority

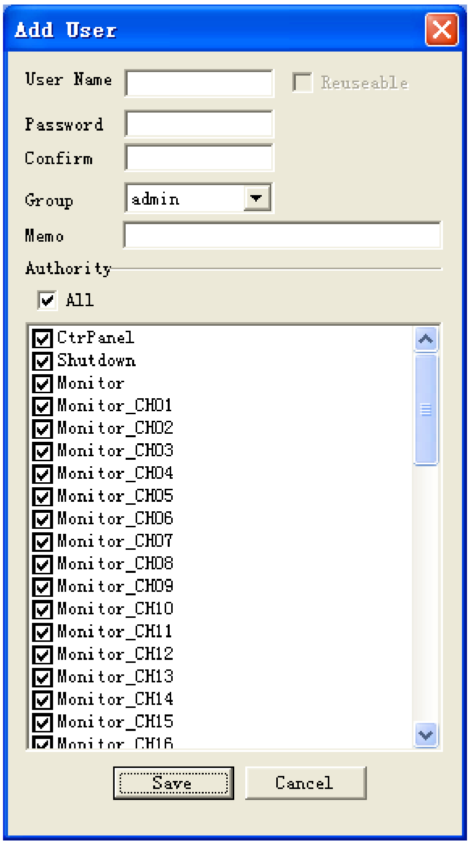
☐ All

☐ CtrPanel
☐ Shutdown
☐ Monitor
☐ Monitor_CH01
☐ Monitor_CH02
☐ Monitor_CH03
☐ Monitor_CH04
☐ Monitor_CH05
☐ Monitor_CH06
☐ Monitor_CH07
☐ Monitor_CH08
☐ Monitor_CH09
☐ Monitor_CH10
☐ Monitor_CH11
☐ Monitor_CH12
☐ Monitor_CH13
☐ Monitor_CH14
☐ Monitor_CH15
☐ Monitor_CH16
☐ Replay
☐ Replay_CH01
☐ Replay_CH02

Save Cancel

Figure 6-47

Click add user button, you can see the following interface. See Figure 6-48.
Here you can input a new user and then select corresponding rights.
Please note one user must belong to one group and user right shall not exceed group rights limit.



Add User

User Name ☐ Reuseable

Password

Confirm

Group: admin

Memo

Authority

☑ All

☑ CtrPanel
☑ Shutdown
☑ Monitor
☑ Monitor_CH01
☑ Monitor_CH02
☑ Monitor_CH03
☑ Monitor_CH04
☑ Monitor_CH05
☑ Monitor_CH06
☑ Monitor_CH07
☑ Monitor_CH08
☑ Monitor_CH09
☑ Monitor_CH10
☑ Monitor_CH11
☑ Monitor_CH12
☑ Monitor_CH13
☑ Monitor_CH14
☑ Monitor_CH15
☑ Monitor_CH16

Save Cancel

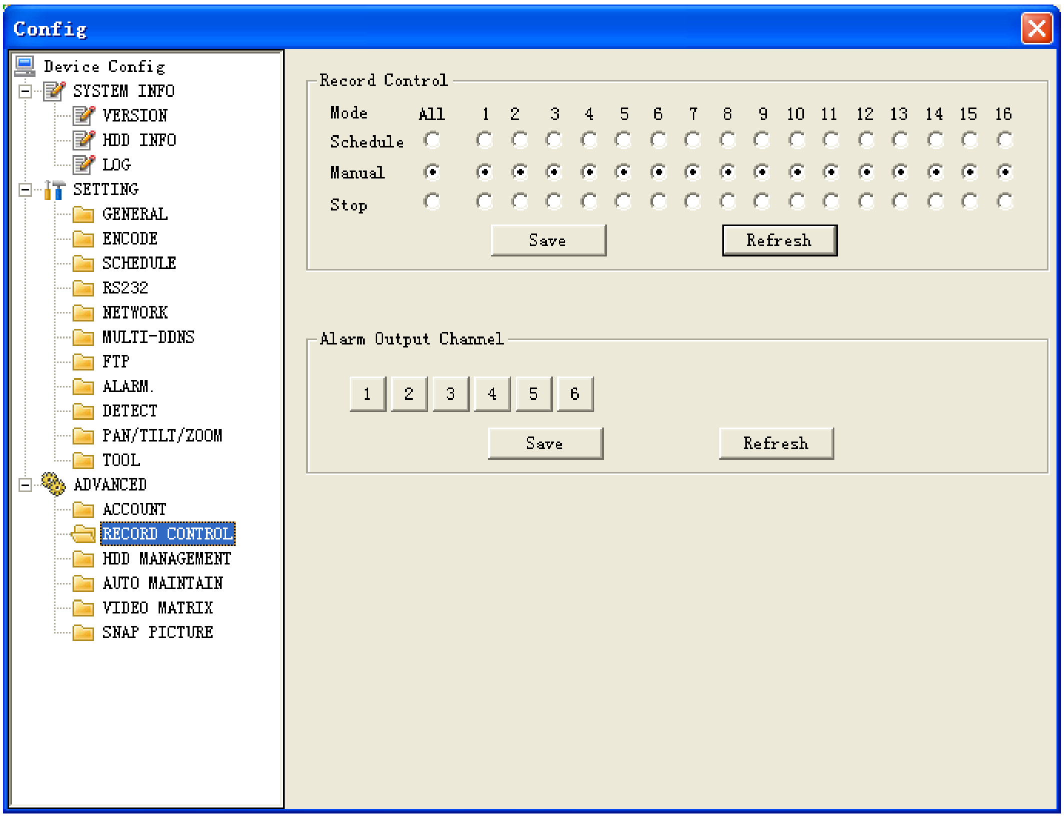
Figure 6-48

- **Record Control**

Record control interface is shown as in Figure 6-49.

Record control: Here you can enable record status for corresponding channel.

Alarm output channel: Here you can select alarm output channel. DVR output channel can not support large overload. (It shall be less than 1A). Too heavy current may result in relay damage. Please use contactor if necessary.


Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM.
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Record Control
Save
Refresh
Alarm Output Channel
1
2
3
4
5
6
Save
Refresh

Mode	All	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Schedule	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Manual	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Stop	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Figure 6-49

- **HDD management**

This function needs DVR device supported.

Please select the HDD first and then you can see the items on your right become valid. You can check the corresponding item here. See Figure 6-50.

After you completed setup, please click control HDD button, you can see the DVR begins restarting.

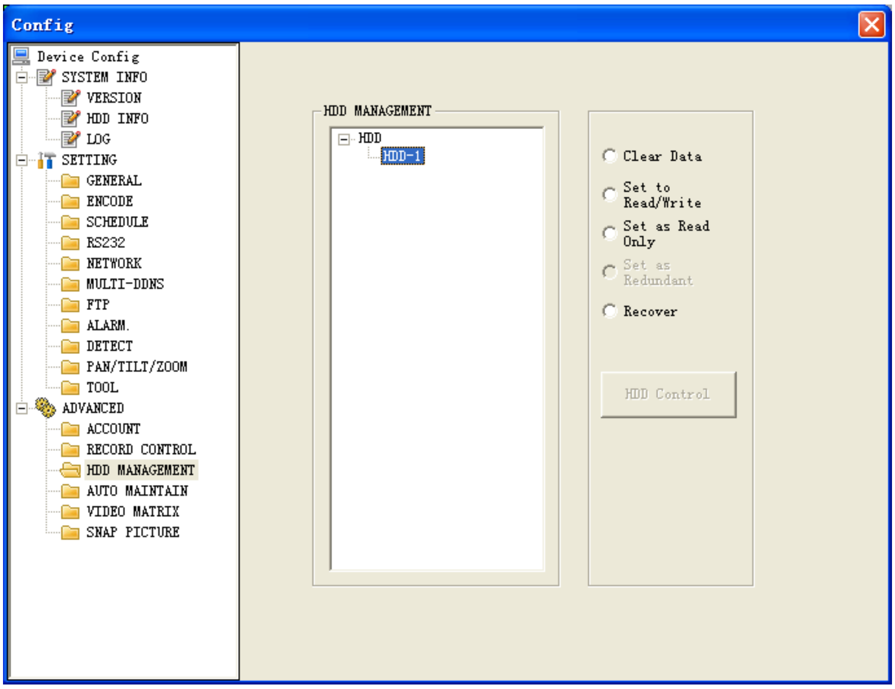
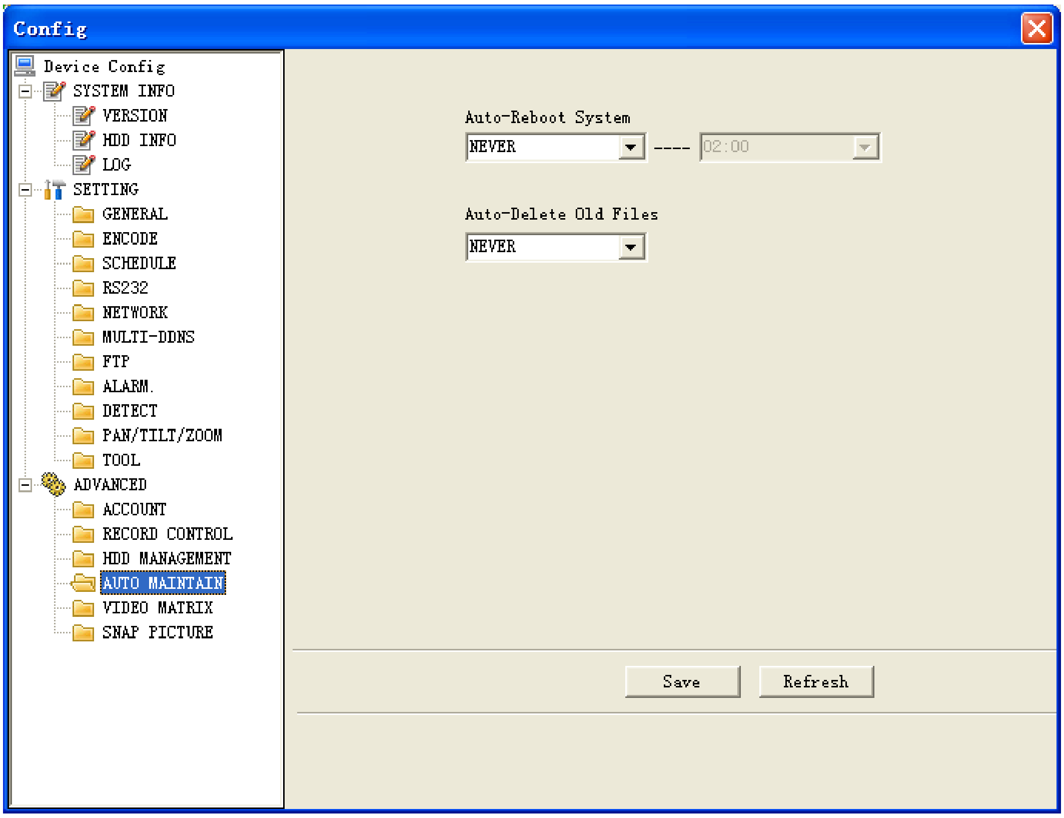

Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM.
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
HDD MANAGEMENT
HDD
HDD-1
○ Clear Data
○ Set to Read/Write
○ Set as Read Only
○ Set as Redundant
○ Recover
HDD Control

Figure 6-50

- **Auto maintenance**

Auto maintenance interface is shown as in Figure 6-51. Here you can enable auto reboot or auto delete old files function. (Need DVR supported)


Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM.
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Save
Refresh

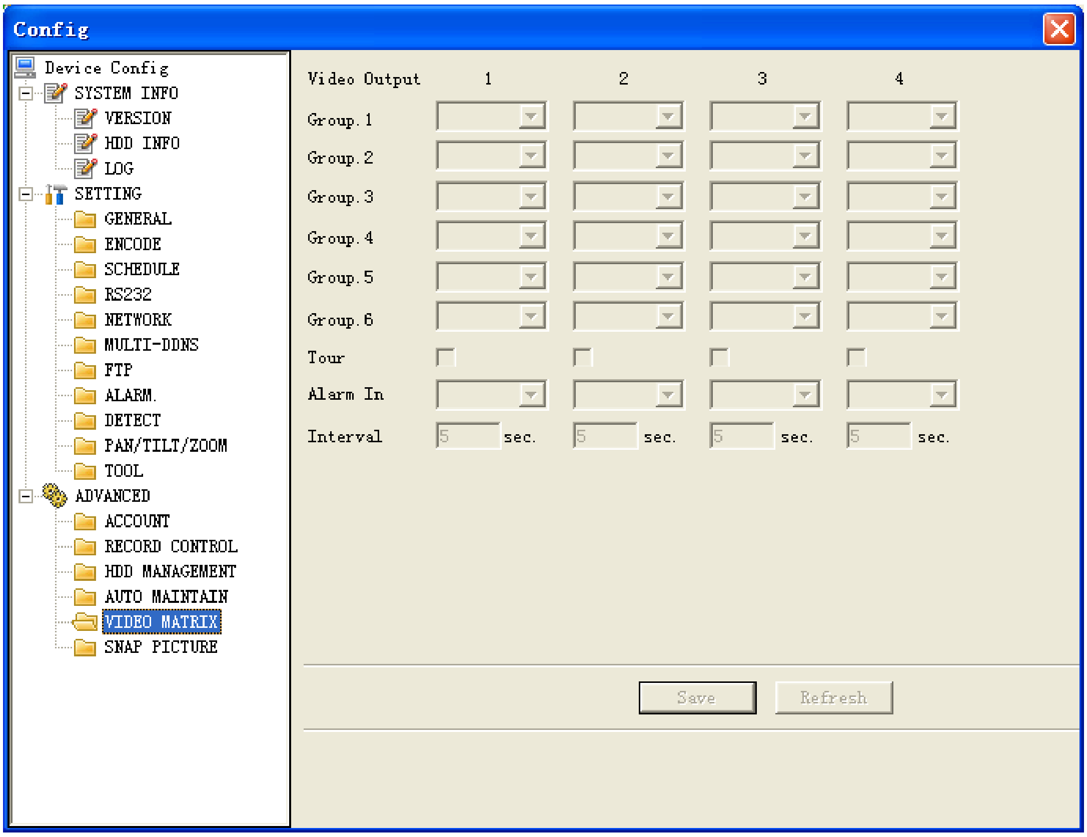
Auto-Reboot System
NEVER ---- 02:00

Auto-Delete Old Files
NEVER

Figure 6-51

- **Video Matrix**

Video matrix interface is shown as in Figure 6-52. Please note this function needs DVR supported.

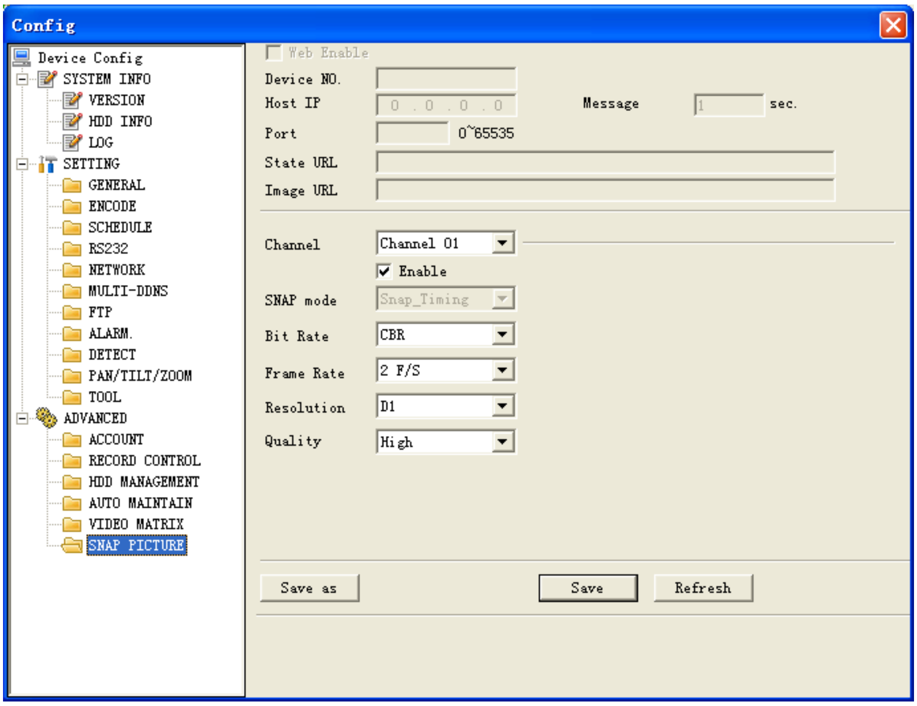

Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Save
Refresh

Video Output	1	2	3	4
Group.1				
Group.2				
Group.3				
Group.4				
Group.5				
Group.6				
Tour	☐	☐	☐	☐
Alarm In				
Interval	5 sec.	5 sec.	5 sec.	5 sec.

Figure 6-52

- **Snap Picture**

Snapshoot interface is shown as in Figure 6-53. Please note this function needs DVR supported.


Config
Device Config
SYSTEM INFO
VERSION
HDD INFO
LOG
SETTING
GENERAL
ENCODE
SCHEDULE
RS232
NETWORK
MULTI-DDNS
FTP
ALARM
DETECT
PAN/TILT/ZOOM
TOOL
ADVANCED
ACCOUNT
RECORD CONTROL
HDD MANAGEMENT
AUTO MAINTAIN
VIDEO MATRIX
SNAP PICTURE
Save as
Save
Refresh

☐ Web Enable
Device NO.
Host IP 0 . 0 . 0 . 0
Message 1 sec.
Port 0~65535
State URL
Image URL
Channel: Channel 01
☑ Enable
SNAP mode: Snap_Timing
Bit Rate: CBR
Frame Rate: 2 F/S
Resolution: D1
Quality: High

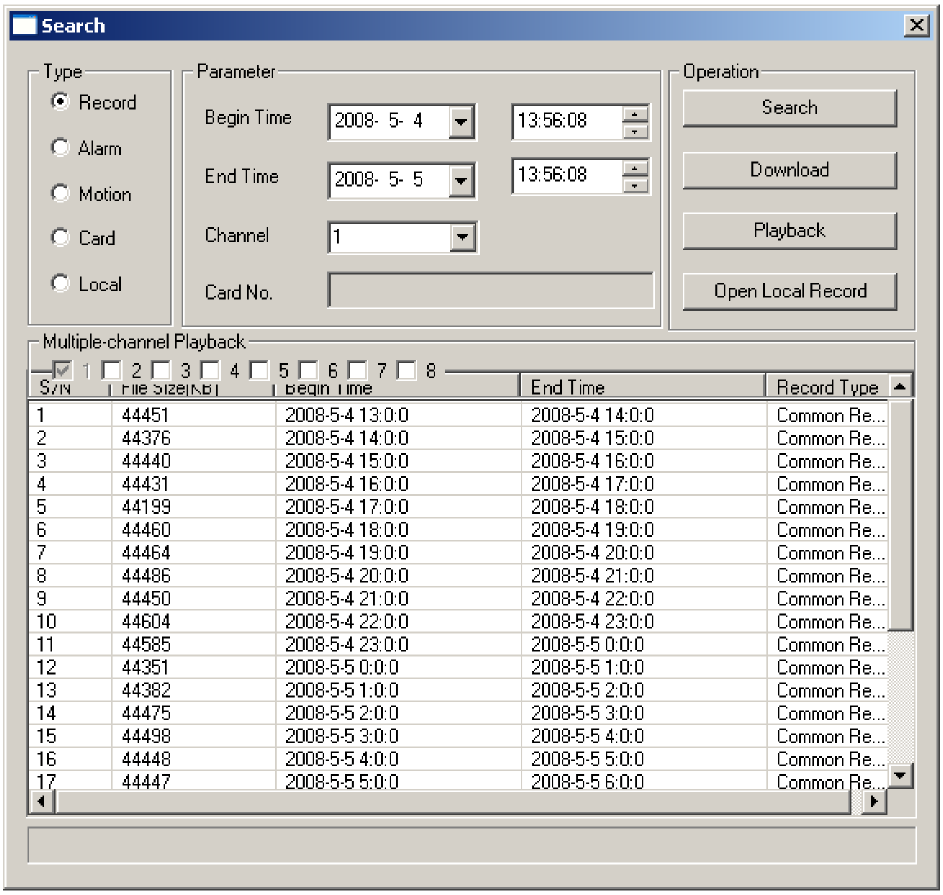
Figure 6-53

6.4 Search

Here you can select video type, channel number and time to search the file you want. Click search button, the interface is shown as below. See Figure 6-54

Please use page up/down key to view the search results.

Double click file name, you can view the file and system will automatically backup the image in you installation directory.



Type: ● Record ○ Alarm ○ Motion ○ Card ○ Local

Begin Time: 2008- 5- 4 13:56:08

End Time: 2008- 5- 5 13:56:08

Channel: 1

Card No.:

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

S/N	File Size(KB)	Begin Time	End Time	Record Type
1	44451	2008-5-4 13:0:0	2008-5-4 14:0:0	Common Re...
2	44376	2008-5-4 14:0:0	2008-5-4 15:0:0	Common Re...
3	44440	2008-5-4 15:0:0	2008-5-4 16:0:0	Common Re...
4	44431	2008-5-4 16:0:0	2008-5-4 17:0:0	Common Re...
5	44199	2008-5-4 17:0:0	2008-5-4 18:0:0	Common Re...
6	44460	2008-5-4 18:0:0	2008-5-4 19:0:0	Common Re...
7	44464	2008-5-4 19:0:0	2008-5-4 20:0:0	Common Re...
8	44486	2008-5-4 20:0:0	2008-5-4 21:0:0	Common Re...
9	44450	2008-5-4 21:0:0	2008-5-4 22:0:0	Common Re...
10	44604	2008-5-4 22:0:0	2008-5-4 23:0:0	Common Re...
11	44585	2008-5-4 23:0:0	2008-5-5 0:0:0	Common Re...
12	44351	2008-5-5 0:0:0	2008-5-5 1:0:0	Common Re...
13	44382	2008-5-5 1:0:0	2008-5-5 2:0:0	Common Re...
14	44475	2008-5-5 2:0:0	2008-5-5 3:0:0	Common Re...
15	44498	2008-5-5 3:0:0	2008-5-5 4:0:0	Common Re...
16	44448	2008-5-5 4:0:0	2008-5-5 5:0:0	Common Re...
17	44447	2008-5-5 5:0:0	2008-5-5 6:0:0	Common Re...

Figure 6-54

In the search result interface, you can select one or more files to download to your local PC.

The playback bar is shown as below. See Figure 6-55.

1: Play
2: Pause
3: Stop
4: Slow play
5: Fast play

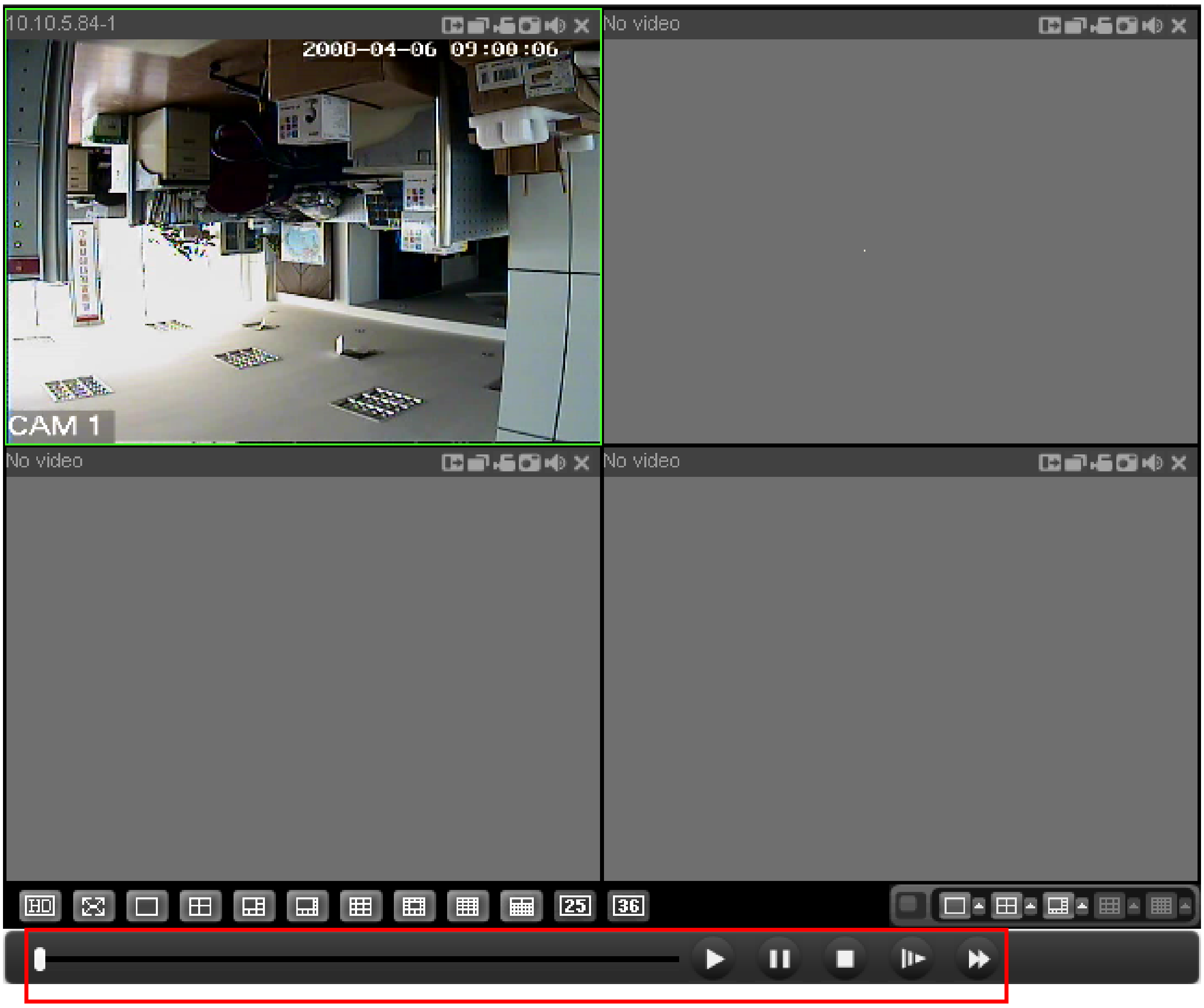

10.10.5.84-1
2008-04-06 09:00:06
CAM 1
No video
No video
No video
25
36

Figure 6-55

6.4.1 Download

You can select one or more files you want to download and then click down load button. System pops up a dialogue box asking you specify directory. See Figure 6-56.

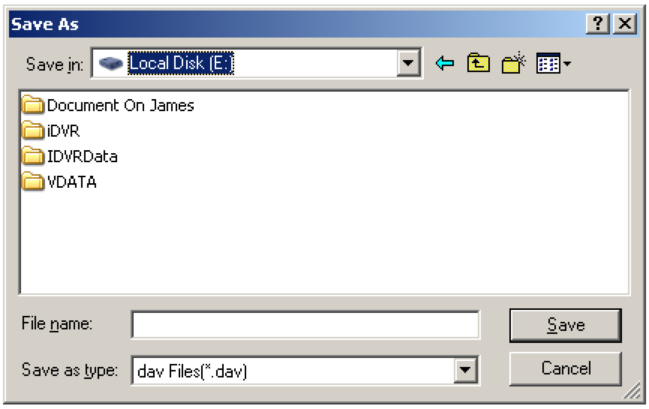
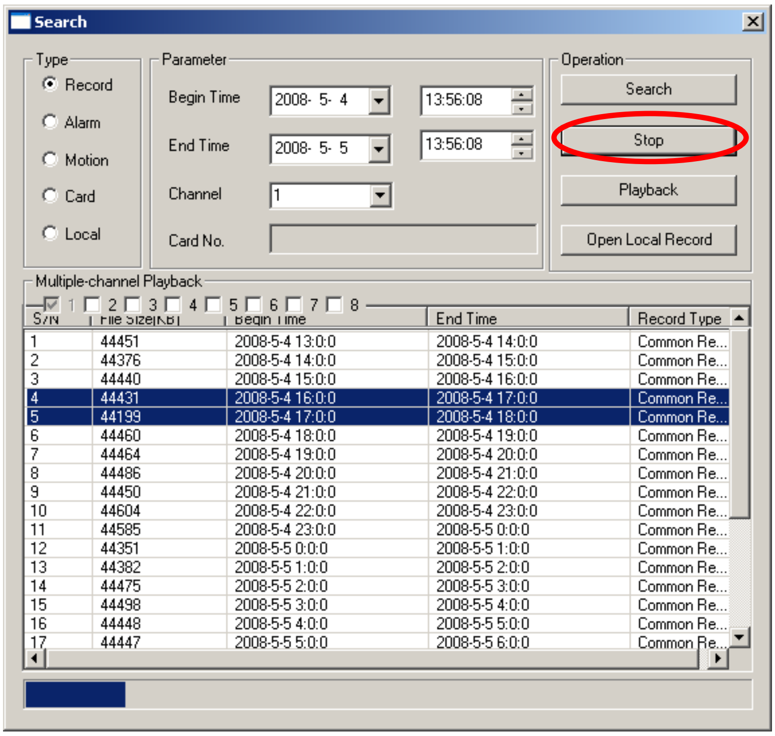

Save As
Save in:
Local Disk (E:)
Document On James
iDVR
IDVRData
VDATA
File name:
Save as type:
dav Files(*.dav)
Save
Cancel

Figure 6-56

Then you can input file name and click save to backup file in your local pc. During the download process, there is a process bar for you reference. See Figure 6-57.


Search
Type
● Record
○ Alarm
○ Motion
○ Card
○ Local
Parameter
Operation
Search
Stop
Playback
Open Local Record
Multiple-channel Playback
☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

Begin Time 2008- 5- 4 13:56:08

End Time 2008- 5- 5 13:56:08

Channel 1

Card No.

S/N	File Size[KB]	Begin Time	End Time	Record Type
1	44451	2008-5-4 13:0:0	2008-5-4 14:0:0	Common Re...
2	44376	2008-5-4 14:0:0	2008-5-4 15:0:0	Common Re...
3	44440	2008-5-4 15:0:0	2008-5-4 16:0:0	Common Re...
4	44431	2008-5-4 16:0:0	2008-5-4 17:0:0	Common Re...
5	44199	2008-5-4 17:0:0	2008-5-4 18:0:0	Common Re...
6	44460	2008-5-4 18:0:0	2008-5-4 19:0:0	Common Re...
7	44464	2008-5-4 19:0:0	2008-5-4 20:0:0	Common Re...
8	44486	2008-5-4 20:0:0	2008-5-4 21:0:0	Common Re...
9	44450	2008-5-4 21:0:0	2008-5-4 22:0:0	Common Re...
10	44604	2008-5-4 22:0:0	2008-5-4 23:0:0	Common Re...
11	44585	2008-5-4 23:0:0	2008-5-5 0:0:0	Common Re...
12	44351	2008-5-5 0:0:0	2008-5-5 1:0:0	Common Re...
13	44382	2008-5-5 1:0:0	2008-5-5 2:0:0	Common Re...
14	44475	2008-5-5 2:0:0	2008-5-5 3:0:0	Common Re...
15	44498	2008-5-5 3:0:0	2008-5-5 4:0:0	Common Re...
16	44448	2008-5-5 4:0:0	2008-5-5 5:0:0	Common Re...
17	44447	2008-5-5 5:0:0	2008-5-5 6:0:0	Common Re...

Figure 6-57

6.5 Alarm

Here you can set alarm type and alarm prompt audio file. See Figure 6-58.

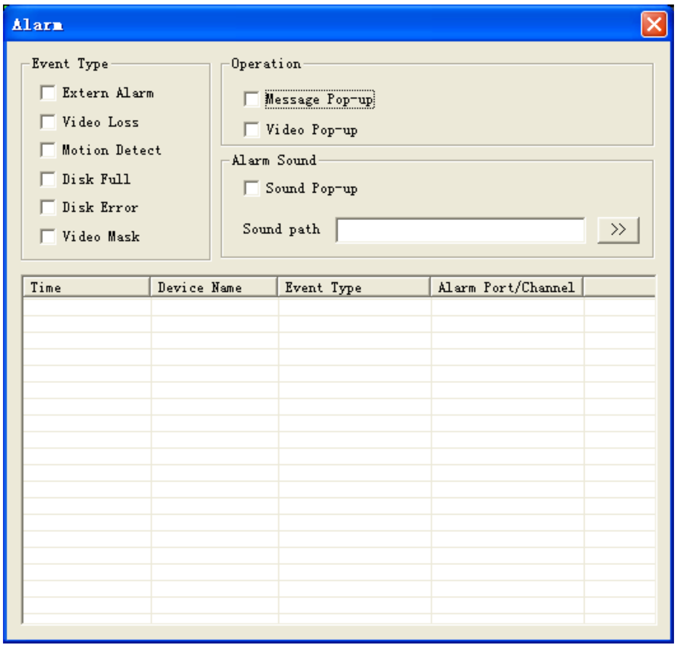
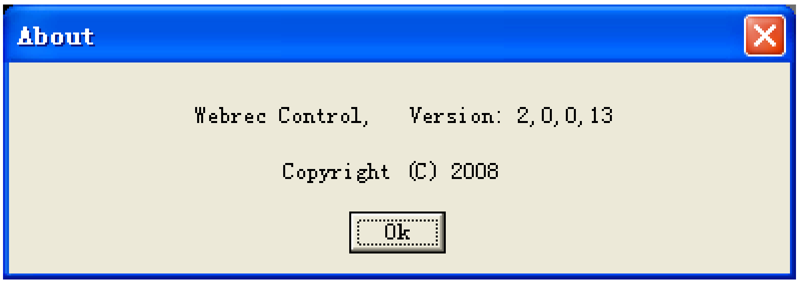

Alarm
Event Type
☐ Extern Alarm
☐ Video Loss
☐ Motion Detect
☐ Disk Full
☐ Disk Error
☐ Video Mask
Operation
☐ Message Pop-up
☐ Video Pop-up
Alarm Sound
☐ Sound Pop-up
Sound path
>>
Time
Device Name
Event Type
Alarm Port/Channel

Figure 6-58

6.6 About

Click about button, you can view current web client information. See Figure 6-59.



Webrec Control, Version: 2,0,0,13

Copyright (C) 2008

Figure 6-59

6.7 Log out

Click log out button, system goes back to log in interface. See Figure 6-60.

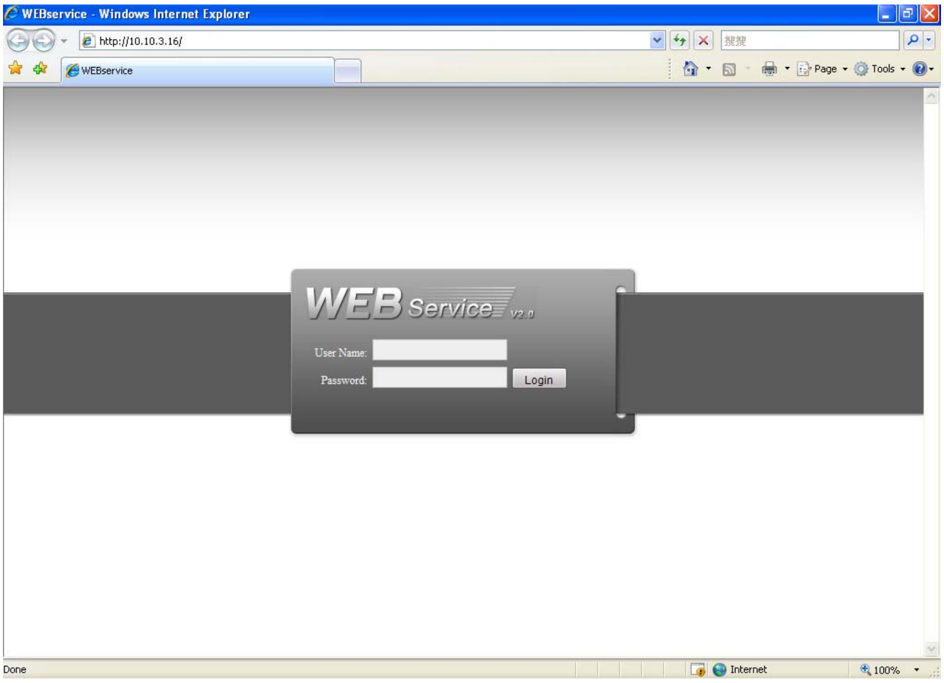

WEBservice - Windows Internet Explorer
http://10.10.3.16/
WEBservice
Page
Tools
WEB Service V2.0
User Name:
Password:
Login
Done
Internet
100%

Figure 6-60

6.8 Un-install Web Control

You can use web un-install tool “uninstall web.bat” to un-install web control.

Please note, before you un-installation, please close all web pages, otherwise the un-installation might result in error.

Slight difference may be found in user interface.
All the designs and software here are subject to change without prior written notice.
Please visit our website for more information.

Appendix A HDD Capacity Calculation

Calculate total capacity needed by each DVR according to video recording (video recording type and video file storage time).

Step 1: According to Formula (1) to calculate storage capacity q_i that is the capacity of each channel needed for each hour, unit Mbyte.

$$q_i = d_i \div 8 \times 3600 \div 1024 \qquad (1)$$

In the formula: d_i means the bit rate, unit Kbit/s

Step 2: After video time requirement is confirmed, according to Formula (2) to calculate the storage capacity m_i, which is storage of each channel needed unit Mbyte.

$$m_i = q_i \times h_i \times D_i \qquad (2)$$

In the formula:

h_i means the recording time for each day (hour)

D_i means number of days for which the video shall be kept

Step 3: According to Formula (3) to calculate total capacity (accumulation) q_T that is needed for all channels in the DVR during **scheduled video recording**.

$$q_T = \sum_{i=1}^{c} m_i \qquad (3)$$

In the formula: c means total number of channels in one DVR

Step 4: According to Formula (4) to calculate total capacity (accumulation) q_T that is needed for all channels in DVR during **alarm video recording (including motion detection)**.

$$q_T = \sum_{i=1}^{c} m_i \times a\% \qquad (4)$$

In the formula：$a\%$ means alarm occurrence rate

Appendix B Compatible USB Drive List

NOTE: Please upgrade the DVR firmware to latest version to ensure the accuracy of the table below. If you use the USB drive, please confirm the format FAT or FAT32.

Manufacturer	**Model**	**Capacity**
Sandisk	Cruzer Micro	512M
Sandisk	Cruzer Micro	1G
Sandisk	Cruzer Micro	2G
Sandisk	Cruzer Freedom	256M
Sandisk	Cruzer Freedom	512M
Sandisk	Cruzer Freedom	1G
Sandisk	Cruzer Freedom	2G
Kingston	DataTraveler Ⅱ	1G
Kingston	DataTraveler Ⅱ	2G
Kingston	DataTraveler	1G
Kingston	DataTraveler	2G
Maxell	USB Flash Stick	128M
Maxell	USB Flash Stick	256M
Maxell	USB Flash Stick	512M
Maxell	USB Flash Stick	1G
Maxell	USB Flash Stick	2G
Kingax	Super Stick	128M
Kingax	Super Stick	256M
Kingax	Super Stick	512M
Kingax	Super Stick	1G
Kingax	Super Stick	2G
Netac	U210	128M
Netac	U210	256M
Netac	U210	512M
Netac	U210	1G
Netac	U210	2G
Teclast	Ti Cool	128M
Teclast	Ti Cool	256M
Teclast	Ti Cool	512M
Teclast	Ti Cool	1G
Teclast	Ti Cool	2G

Appendix C Compatible CD/DVD Burner List

NOTE: Please upgrade the DVR firmware to latest version to ensure the accuracy of the table below. And you can use the USB cable with the model recommended to set USB burner.

Manufacturer	**Model**	**Interface**	**Type**
Sony	AW-G170S	SATA	DVD-RW
Samsung	TS-H653A	SATA	DVD-RW
Panasonic	SW-9588-C	SATA	DVD-RW
Sony	DRX-S50U	USB	DVD-RW
BenQ	5232WI	USB	DVD-RW